APPENDIX TO THE FINAL REPORT

OF THE

IRISH MILK COMMISSION, 1911.

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Presented to both Bouses of Parliament by Command of Bis IPajesty.



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BY THE LORD LIEUTENANT-GENERAL AND GENERAL GOVERNOR OF IRELAND.

ABERDEEN.

We, John Campbell, Earl of Aberdeen, Lord Lieutenant-General and General Governor of Ireland, hereby nominate and appoint:— PARICK J. O'NEILL, Esquire, J.P., Chairman of the County Council of the County of Dublin:

Sir John Lenvaigne, F.R.C.S.I.;

GEORGE A. MOORHEAD, Esquire, F.R.C.S.I.; ALEC WILSON, Esquire, of Belvoir Park, Belfast;

DERMOD O'BRIEN, Esquire, President of the Royal Hibernian Academy; JOHN R. CAMPBELL, Esquire, B.Sc., Assistant Secretary in respect of Agricul-

ture of the Department of Agriculture and Technical Instruction for Ireland; ALBRUT & MEYTAM, Esquire, M.R.C.V.S., Principal in the Royal Veterinary

College of Ireland;

Lady Everand, of Randlestown, Navan; and Miss Mandager McNeller, Assistant Inspector of Reformatory and Industrial Schools, Ireland.

to be a Committee to inquire into the alleged scarcity in the supply of Milk in some parts of Ireland, and to report upon the causes of the deficiency, where it exists, its effects upon the public health, and the means whereby the deficiency can be remedied; and also to inquire into and report upon the dancers of contamination

and infection in the present Milk supply, and the methods best adapted to guard against those daugers.

We further appoint the said Patrick J. O'Neill to be Chairman of the Committee.

Given at Duhlin Castle the 8th day of November, 1911, by His Excellency's Command.

J. B. DOUGHERTY.

BY THE LORD LIEUTENANT-GENERAL AND GENERAL GOVERNOR OF IRELAND.

ABERDEEN.

Wwm.s.s. We, John Campbell, Earl of Aberdeen, Lord Lieutenant-General and General Governor of Ireland did by Warrane bearing date the 8th 4og November, 1911, appoint Patrick J. O'Neill, Eaquire, J.P., Chairman of the County Council of the County of Dublin, Six John Lenizaigne, F.R.C.S.1; and the several gentlemen and Isdies therein mentioned to inquire into and report as to certain questions affecting the supply of Milki in some parts of Ireland;

AND WHEREAS one of the Members of the Committee so appointed, namely, Sir John Lentaigne, has tendered to Us his resignation of his appointment as one of the said Committee;

Now Wz do appoint Sir Stewart Woodhouse, M.D., to be one of the Committee for the purpose aforesaid in the room of the said Sir John Lentaigne, resigned, in addition to and together with the other members of the Committee whom We mave already appointed.

Given at Dublin Castle the 2nd day of January, 1912, by His Excellency's Command.

Page.	Name of Witness.	Cupacity in which Witness gave evidence.
15 15	Andreson, R. A Andreson, William John	Secretary to the Irish Agricultural Organization Society. Manager of the Orangh Co-spensive Creatury.
	R.	
28	BARNER, JOHN BOSSET	Farmer, Collectory District, Ca. Slige, Of Melberrie.
3	BARRER, JOHN BOSHER BARRER, Dr. JAMES W., C.M.G. BETTY, Dr. MOORE	Medical Officer of Health, Ermiskillen.
100	Barrery I W MDCVe	Medical Officer of Health, Ecclaidies- Partit Priest of Falorengis, Or. Decopol. Chief Veteriorry Inspector, Hauthester.
16	D.V.S.M. (Vict.). BROWN, WILLIAM JAMES, J.P. BROWN, J. G.	Mornber of the EnrickHee Royal District Council.
10	Вкочик, 3, 6,	Farmer, Strabuse.
	C.	
310	CAMERON, Dr. J. SPOTTERWOODE, M.D., B.Sc.	Medical Officer of Health, Londs.
112	Craramon, Dr. A. K., D.P.H. (Carab.)	Medical Officer of Health, Glosgow, Representing the Orangh Rossa District Council, Manager of the Colleges Co-operative Council, P. Darman, Co., Co., Co., Co., Co., Co., Co., Co.
11		Manager of the Colleges; Co-operative Consumery, St December,
80	CRAIN, Probance JAMES FERRITRON, M.B.C.V.S. COMMERCIAN, JOHN	Member of the Demonstree Urban District Council.
320	D.	
110	MR O.M. MSO.	Director of the Public Health Laboratory connected with the Meaches University.
181	DELETINE, Profuser A. SERBIDAN, M.B., O.M., M.So. DECOY, JAMES A., M.B.O.V.S. DRESSAN, JOHN T., B.L.	Chief Veterinary Inspector, Lecis. Registers and Assistant Secretary to the Estates Commissioners.
	F.	
40	PLETOKUS, D	Succeive Sanitary Officer, Londondorry.
		District Comments of Contract
60	G. GARRANTE J	
16		Dairy Farmer and Milk Vender, Derry. Vice-Chairman, Board of Guardiana, Gleaties Unico, Co. Danzeni.
33	Gallagers, Denis	Manager of the Lough Engish Co-operative Orestrony, Co. Monaghar Ferrare, Collegery, Co. Shigo, and member of the Committee of t
41	Gossbede, Major Sie Nicholas	Nos-Chairman, Board of Guedana, Gleaties Unico, Co. Danagal. Nosages of the Lough English Os-speciative Creacerey, C. Mosaghar France, Collessoy, Co. Sige, and member of the Contestion of I Collosoy, Geographic Creamery.
	я	
14	Hanna, Mos. Streets	Hon, Secretary of the Eglinton Branch of the W. N. H. A., Co. Londo
78	Hanges, Dr. Horse	derry. Medical College of Health Street Co. Londo
46	Howare, Jones, M.R.O.V.S.	deny, Medical Officer of Health, Stewaristown, Co. Tyrone, Veterinary Emperior, Landonderry.
	L.	
17	Lamo, Dr. Joses, J.P.	Medical Officer of Health, Sifre No. 1 Rural District.
65	LEGYR, JOHN SHOPE, P.R.O.V.S. Urcox, James	Medical Officer of Health, Sign No. 1 Streat District, Chief Veterinary maspector, Sheffield. Manager of the Enllymetance On operative Commery, man Coloraine
	м.	
14	McCarts, Dr. Guenau B., J.P	Personality of the Committee of
24	MACDOWIE, De. E. C	Representing the Derry Corporation.' Surgeon to the Sigo County Hospital, and Vaining Physician to Sigo Lunatic Arylum.
40	M'Dwysn, Rev. Hrun	
71 86	M'GREIOF, JAMES	Representing the Omagh Urban District Council.
11	M'MERL, Bev. Gronou, D.D.	On Danagal. Grand Danagal. Urban District Council. Member of his Omagh Urban District Council. Member of his Omagh Urban District Council. Facilit News of Bridling, and representing the Belleck Beauch of a Circle of the Glenden Renal Darbote Council. Co. Donagal. Circle of the Glenden Renal Darbote Council. Co. Donagal. Circle of the Glenden Renal Darbote Council. Modikal Officer of Heisful, Aghadowey, Co. Adultim; and Freedingth the Aghadowey Co. Opensity Council.
145	M'NELE, MIDEAU, J.P. MALCOIM, JOES, F.R.C.V.S. MOTRISON, Dr. H. S.	Clerk of the Glentlen Rural Durbict Council, Co. Dennegal,
84		Medical Officer of Health, Aghadoway, Co. Autéen; and Freeldant Reideal Officer of Health, Aghadoway, Co. Autéen; and Freeldant ha Aghadoway Go operative Creamery. Reident in Elliybuga District, Co. Doorgal Acsistant Medical Officer of Health, Liverpool.
	MURREY, TROOKAS	

	TRL 0	F WITHDESSES-outlined
_		

X.		
NIVES, Dr. JAMES		Medical Officer of Health, Manchester.
0.		
O'BOTLE, JAMES, J.P O'BYENE, PATRICE	:::	Farmer, Kilisla District, Co. Mayo. Resident in Killybegs. Co. Donegal.
. P.		
PRESERVE, DAVID, N.R.O.V.S.	***	Superintendent Tratalt Impactor in the Veterinery Reach of the Department of Agriculture, Ireland.
4		
Quarter Jones V		Food and Brugs Inspector, Liverpool.
R.		
BORRINGS, Dr. JOHN, M.D., B.SO BORRINGS-SOUTH, J. W.	:::	Medical Officer of Health, Birmingham. Se Gosta and Mile-sheen.
8.		
SCOTOCORDO, Dr. HARODO, M.D. SIEDER, R	:::	Modical Officer of Health for Sheffeld. Superintendent of the Derry Alestoir.
STEVARS, JAMES, J.P.	Ξ	Principal Circk, Local Government Board, Dublin, Rogresseating the Strebane No. 1 Stard District Council.
T.		
THATE, Alderman MARGEALL, D.L. TROPPER, A. M., M.R.C.V.S.	:::	
w,		
WHALFT, GROSSS WHYPS, WILLIAM B., J.P WHALFS, R. J.	::	Chairman of the Enzishillen Urban District Countil, Manager of the Scotish Whelevale Co-spensive Society, Enzishills Secoulary to the Omagh Co-operative Agricultural and Dairy Society
	Offeria, Asian, 3.7	OPERIOR, ALBERT J. P. PARTIES, PARTIES, LINCY S. Q. Q

PLACES AND DATES OF MEETINGS OF THE COMMISSION FROM 8th AUGUST, 1912, TO 23rd OCTOBER, 1913, INCLUSIVE,

Bounnes	8th August, 1415	 Evidence taken.
State	9th Angust, 1912	 Do.
KRATEGOS	11th August, 1812	 Do.
Lorgestray	18th August, 1911	 Da
Омаси	14th August, 1915	 Do.
Da.	18th August, 1811	 Inspection of Greenwrite in Co. Tyron-,
Deaces	2nd and sel October, 1912	 Evidence taken.
MANCHIPPER	7th and 6th November, 161	 Do.
BONNESSMAN	- 6th and 11th November, 10	 Do.
Denus	19th and 10th November, 1	 Committee Meetings.
De	16 and 14th December, 1911	 Evidence taken.
то	filed December, 1912; 1 February; 19th, 19th	Committee Meetings.

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APPRING E.	The United Irisis Women, or Degractic Milk Supply	***

FORTY-SIXTH DAY .- THURSDAY, 8TH AUGUST, 1912.

The Commissioners met at the Courthonna Ennishallen, at 10 o'clock, a.ve.

Present :- P. J. O'NEILL, Req. (Chairman); Lady Everand; Miss Margaret McNeill; Sir STUWART WOODHICKE, M.D.; G. A. MOOBHBAD, Eq., F.B.C.S.I.; DERMOD O'BRIES, Eq. S. W. STRANGE, Esq., Secretary,

Mr. Gronog WHARPY examined.

2007. The CRAMMAN.—I understand, Mr. Whaley, on are Chairman of the Equidilles Urban Council?... 26028. What proportion of the milk sonarmed in the town would be missed in the urbus sees?—I can hardly Yea, Mr. answer that question.

Yes, siz. 19.608. And you are familiar with the administration of that body under the Public Health Act?—Yes, 20000. Would you be good exough to tell the Com-20020. Is there any scarcity of milk, do you think, in the town at any period of the year?-No; I think, on the whole, we have an adequate supply. hisson what arrangements have been made by your Council for the administration of the During and Council 20000. So far as your knowledge goes, you are not able sheds Order?-The Comeil brought the Order into operation immediately after it was passed, and wa to state that at any period of the year those who are

desirous of processing milk, and having money to key, cannot find it in the town?—I think, on the vehicl, if they had money to purchase it they could get it at are appointed furpectors, a veterinary impactor and a dairy inspector who goes round from time to time to examine the dairies and milkshops, and that inspecany time.

tor reports periodically to the Urban Council. 26031. You must have a large industrial population in EmploYdean—Yes. The population of the town in 20110. The condition is which he finds the dainer about 5,000.

20011. Has be reported satisfactorily on their con-dition re otherwise?—On the whole, the law is fairly 20002. Have you any knowledge of the quantity of milk that would be consumed in the bousehold of an well ecouplied with. ordinary mill operative carning from 20s, to 30s, a MILE Have you ever been obliged to renort to pro-scretious for the purpose of enforcing the provisions work?—I extend answer that question-

20000. Probably we will get that from the doctor?of the Order?-Yes, in one or two instances. I presume you will. 20023. For want breach of the Ordert-The con-25034. I presume a fair quantity of milk is sent into the town for sele from outside areas?--- Yes. There are strotion of the bores. several milk carts coming in.

20016. Do the magistrates seem to think that was a serious matter, and do they co-operate with the 2000. And vending milk through the streets and Council in their efforts to have the provisions of the supplying private houses?-- Ten; they have their our-Order culorood?-Xes.

20015. You have no reason to complain of want of co-operation on their part?-No; they give us every 20050. In any inspection made of the milk so disributed by your officers!—No; our officers do not interfere, so far as I know, with the mile sold from 26016. Was your officer able to secret the alterations be mareidayed mocressary in the premises?—Yes. carts that come in-

26087. Not even to the extent of taking tamples to 26017. Are there milishops in the town?-There see if it is adulterated?—I don't think so. 26038. Is there a Pool and Drugs Act officer under 20018. Are these impected?-Yes, periodically. the Urban Council?-No: but there is under the

18019. Are reports over made by your officer as to the condition in which he finds these shops?—Yes; be 20330. Have you beard of any samples taken by him of galk from equals seem \$-5 es. reports to the Corpell. 199120. Has he over reported any househes of the

20040. Have proteoutions remitted?—Yes. I have our case before my mind. argue case his ever reported any actioned of the regulations with regard to the manner in which the mult is stored in these shops?—Well, I think if there was any fault at all it is in the matter of the storage 26041. What nort of fines were imposed by the Beneh?—I think protty beavy fines. In the case I have in my mind I think it was a fine of £1, so far of the rolls. 20021. He finds it is not always stored in as healthy agroundings as he would desire?—That is so.

20042. The reason I put the question is because we have been compliants elsewhere that the local Magis-20022. Have you over instituted prosocutions wi regard to the manuer in which male is stored?—No. to realise the gravity of offences under terms nemae that to resize the gavery or offences under the Order, and only impose nominal penalties. It wanted to know have you may reason to complex to that respect in Eunistifica?—No; we have not. 20023. Were the matters reported on not comidere of sufficient gravity to institute presentions. It would mean prehaps abeliabing the shops altogether. 2004. That is what I wanted to get at. Did your thungel feet that if they endered the Order they would drive people out of the trade?—Yes. To my 26043. Has your medical officer ever reported to the Urben Council that he suscepted the milk supply of being the cause of an outkersk of infectious disease in knowledge in the experity of cases that would be so. the orban area?-I don't think to.

2023. Here you the arms feeling with regard to the condition of the hyres?—No. I think the law with regard to the condition of the byree has been sedered in strict confermity with the Order. 20044. Has there ever been a suspicion that infections disease was traceable to the milk supply in the 20026. So that the only matter in which you found

20045. Would you think it desirable that your Council, he example, should have the right to go into the country outside the urban sea to secretal to conditions under which the milk shat is sold and con-struct in the town in produced?—No 26097. Would the owners of the milkshops be cow keepers themselves, or people who buy milk and relat 20046. You would be in favour of conferring that power on when authorities—to go into the district in which the milk is produced, and have an officer neepers themastres, or people was buy mar and resall th nextra

Printed image digitised by the University of Southempton Library Digitisation Unit

z. Guenan Whaler.—Sth August, 1925.

of your own to report the conditions under which the industry is curried ou?-Yes; seeing that they compete with the local producers.

20047. To commo absolute uniformity in tendo, and to accene that the mile supply would be cleanly and healths?--Yes. 20048. Is registration reloved against all cow-leveness and milk venders in the town?—Ten; against

all one learners who sell milk. Of course there number of people who keep cows for their own private numer to prope who arey topic for spiriter.

26047. Howe prantications ever been middleted against persons who sell mile without being registered?—Not veerloot

20000. It is universally innova throughout the towe that registration is enforced, and that these who sell must comply with the registration formula?—Yes, that must comply with the regenerators in the state of the generally known.

20031. Have yet any knowledge of what steps are taken by the Barnd Council to enforce the provinces.

of the Order?-Yes. I understand that lately they the Order into operation. They have appointed a veterinary impector as note 20052. In the the same veterinary impector as note for the Urban Council?-He is 20054. Begording the condutes of the cows, has the welerinary imprestor reported to your Geomet that be found arrive is the darry breds that he connected of suffering from tubesculous sufection?-Xes, in one co two crees, and he has seen that they have been dis-

20055. He has never recommended the slaughter of these suitable to your Council?—No.

2000. He has never reported that he was unable to 20050. He has never seperate that were supplying astilt to the town?—No. He has get sid of them. 2007, Will your veterinary officer he commised be-2003, Well, then, we will get that information from 26000. Would you be in favour of lisensing duiries and now-kespees; I meet licensing them in the cause way as spirit process would be licensed for their tends? In the feet instance that they should make application to the local authority that the precises should be impected; that the elementer of the person making the

application should also be investigated to ascertain whether he was a person who would be likely to corre whether he was a person who would be here, so carry on a legitument terde, and that the irrease shered be at the will of the Cornell, renewed, as the person compiled with the regulations had desert—Yes. __20006, You think that would be beight to the Orison Council ?-- Yes Control re-Los.

20061. And to more completely costani the sale of milk and to production voder byginnic conditions?—

Tos, I think it would be of assistance.

20002. Have you my reason to think or believe that any of the outside authorities are weak in the adminu-tration of the Order by reason of the inflarme that may be brought to hear on members of local Councils to overlock certain defeots?—Yes, I think the Order was adopted in a half-hearted way by some of the surround-Cremella. sing Crimena.

20000. Would yet be in favour of having the administration of this Order controlled by some control
ministration of this Order controlled by some control
subscrity, who would, at least reperties the week of
the local authority?—The local authority is particully

experient. 26004. They see prefertly competent, I admit; but at the see persons outpetent, a sense; but on your own statement some of them have not shown the diligence in carrying out the Order that you result think necessary?—That does not apply to the Urban 200000. It is for the protection of such surthorities as yours that every district that sends milk into a town

years that every district that secue more and a sown like Established should be required to unforce the sums conditions as are enforced in the urben area?....Yes. With that object it would senist. 20000. And it would lead to more uniform administration of the Order throughout the country generally?

—Yes.

20007. Do you know neghting shout the condition of the entitle that supply milk outside the urben area? I don't know anything about that at all 20168. Are three many presented in this region?-We have a commony in the town.

2000, he there may sale of separated milk from that
commony?—I don't think so. Is the reparated mile all sent back to the

furnish who expely the whole milk?-Yes, so for an 20071. And no retail trade is done in separated milk amongst the poorer inhabitants of the town?-No: 15 bettermilk they deal with. 20072. Is that subject to bespection by your officer the same as the new milk?-It is outless to our officer ne regards cleanliness It comes into his purview to report as to the condition in which this milk is offered for sale?ce. 1) is greenly street in the same premises as so new rulk.

20074. The only real completes you have to make is

that the male in the small sleeps is not stored in as good condition as you would like to see 149.—That is no. 20073. Has your officer over reported that he disdo not think so. I think he has ropeeted that the venues have not here kept engered. That they are exposed to contamination by fire?—Yes 26077. Has he ever reported that he has found those regaged in the handling of the malk were not clean in heir persons.—He has not. 2607d. And, so far an you know, he has no remen to complain or that some his reports have not in-

disased that?...No.
20070. You would hardly know snything of the milk
yield of the cover...No. \$6000. Lady Evenan,....I think you said you would like the Urban Council to have the power to go into

milit for his town is desired—Xes; I titals is would be only year and his to the urban repliers. 2003b. For rather the consumers—Is built included— 2004b. For rather the consumers—Is built included— 1004b. e. quart to wrater and Ight, in summer. That is size gries, to the hast of my opinion. 2004b. Would you colrected that all the Iry-products are now milit? An you are senses, and not regulations as new milit? An you are senses, and not regulations are new milit? An you are senses, and not regulations are new milit? An you are senses, and not regulations are new milit in the support of the military military and in the ir was subjected to impossible of any lead. Would be to the military of the military of the military of the military of the late of the military of the mili under the same rules and regulatores as new milk! That is a way life generation. I seemly such time to massive that. You open up the question of butter shops. 20004. The CHIEMER—What Lady Zeerard destroy to know it whether those who don't sail milk, but who to know it whence some was used a out man, one man make butter at house, abould be under the same regula-tions as those who sell now milk savest?—You; I would be in favour of their but I don't think there is such as that in the town of Banishilles.

20000. We are not drawing when me now comp, we would be glad to have your views on the question generally, even though it might not apply to your own new?—Yes. 20000, Lody Evenant,....We have had evidence obutter containing the gorms of tabaryulosis?....Yes. C ourse, it would be a cepitel idea to bring them under e same rules as new male. 20097. I think you said you stead of registration. You 20007. I think you said you would advocate licensing estead of registration. You think it would be more dvimble that the cow-keepers should be licensed?— Streets? We have a vidence that the velocities velocities are unique or the first that a whole-time velocities unique would be nece additable than what we have a velocities when the present of greeces?

is not paid sufficiently to make him perfectly lend. The votorinary surgeons told us also independent. independent. The rotestnary surgeons told us amo that they considered if a whole-turn surgeon was ap-ported by the Department or the County County it would be advisable?—That would only apply to large 20000. For the whole county?-Yes,

20090. The sies was that his work would be mur 20090. The idea recy, and peobal end to efficiency penhably heater done?-I beliave it would tend to efficiency, 1500. No SPERARY WOODSCORE.—It your improtor of daties and corolled the sub-analogy officer for the distinstent.—He is one water impactor. Well 150001. In addition to the Courtry Council office who looks after the sublication of mill, do the Counthing of the sub-analog of the country for the country to the country for the country for the country for the country of the country for the country

incy teme mamples for manayaer—une respector is a sergench in the Countrivisory. 2003. Dr. Mourrayo.—In he the impector of food and drups?—Yes. 20094. Are three any articles sold in the milk shops bondes milk?—Yes, there are. 2003. What kind would these be?—Well, grosories.

679 Mr. Guenca Wanter,-2011st Not more than that?-I don't think so; but

wholter presilin oil is sold in those shops. I would not say it is not, but I am not in a position to say it 20097. It has nover been reported that any elementors apticles are sold in these milk shore?-No. I don't think it has been specifically reported what particular things were in the milk shops; but I know it has been reported that there are timings in milk shops other than

2008. There are no separate milk shops in the town—skeps blust go in exclusively for the sale of milk?

2000. Are you salished that there is a sufficient seculy of milk for the public?—Yes. I never heard complaints about the

eavy compilation about the supply.

37(10). Mr. O'Broom, "The overancey that is in the form, in it as-operative or morporatory"—Is belong to the form, in it as-operative or morporatory"—Is belong the sound. The property of the sound in the sound of the

we him leter on before you. acce, and which is sold to people in the town, is that also sold in the streets from carts?—It is supplied from s cart to people's houses.

20104. Only to certain individuals?—Only to cus-

tences.
20106. It is not sold to any one in the street who comes up and says, "I went a half-penty worth of ralls." 2—No. Mills. Is is practically milk that is ordered before and than just delivered?—Yes, 26307. I suppose that is delivered in ordinary cons-

they don't supply it in scaled cans or bottles?-It in in large case, and it is moreused into the muse of the customers at their door

2000. In the milk taken out of the tap, or do they dip in a vessel for it?—It is taken out of a tap. 2000. The can is covered; it is a proper out?—Les. 25110. It is not liable to contamination?-No; it is covered, and appears to be very well and oleanly kyet. 20111. Do you know how many shope there are sell-ing milk in the town of Econbellan?—I suppose there would be some five or six altogether. re officers will give you evidence on that.
20135 So that there who see setting see selling a
meldemble amount of milk?—Yes; they are dutyl-

hated over the town 96154 And each of them is selling a good quantity milk?-Yes. of militri-xee.

2012. Do many of the people living in the norm
get the milit from octable the orban sharies?...Por
salls, do you mean?

2011.6 No. for their private consumption. Are there
many people in the teem who have even and farms of

their own cotade the fown sanding in mile? I don't their den corned for even nonling in mint.— see a Mink so. We have to case such as their. 2017. Is the tulk of the milk which is consumed in Remiddling retailed from the sheps!—No. I would say the bulk of the milk that is consumed in the town

supplied by the dairies in the town. 20135. They actually keep the corn in the town?... We have to grave them outside the schen disbrick sees, because we have no accommodation within the urban district. We are built on so island. 26119. The cattle are wintered in the town?-Yes 20120. And are liable to impection by your officer?

26121. But when on gener they are conside your area, and not listic to importion?—So far as I know, I do not think they are inspected by our inspector. 400 Mb same near her negreeon by sam negocia-20122. In the same way he deer not know under whit conditions they are milked in the recenter when on great—He knows they are milked in the open. 2018. He may know that from prantical experiment, bothes he the right to go out and see how they are being milked, and whether they are being milked in a cleanly way?—Our deputy inspector would not have the power our veterinary inspector would have, sooing that the latter is also impector for the rural district as well as for the velses district 25/24. You think there is no danger of a now that \$8.795. You white there is no desper of a copy that would come under his frespectation in the winder as being distante, and particup subject to independent, bring and to the firm outside, and proton in good send in world temperature? That has his proton in good send in way the proton of Regiond—when the history comes that were under turn-niske importance in the town and and the activity mean middle.

send the sicily ones outside, and the nell is read in all the stone?—I do not think there is any danger from

Dr. Moore Burry examined.

that source here.

20125. The Cuantum .- I undentend, Dr. Bessy, you are Medical Officer of Realth of this district?-

in.

30130. Do you hold any other public appointment?—
nn Dispreasry Medical Officer se well.

20127. Cruscopenity, you are familiar with the conditions under which the poor feed and nounts their 26228. In there any supposity of milk for the infant

equisition in this district of Enrichtlins."—So for a lowe, the quantity evaluable is sufficient, but the country used by the initividual family is insufficient, but the country used by the initividual family is insufficient. The substances combined, it would say.

Bellot. Do you find any improvement as to the spacetime, or would say.

Bellot. Do you find any improvement as to the spaceton of the substances of the substances of the spaceton of the substances 26331. You do not think they are my more multipliened on that question than they were five or ten years applical would not say so.

26332. In three a battich of the Women's National Health Association in this town?-Yes.

20133. Do they employ a nurse?-No. 20134. We what purposes branch of the week are

2013. Yo while print/daw heards of the work are their energies aircreads—I do not think they have their energies aircreads—I do not think they have 1913. Have you throught of tary means by whilehed this increating religible to more whichly dissembly the working-dates population?—They could have sometime the working-dates population?—They could have 1913.08. Would by you dhalk locationer would he in any way helpful?—I don't blink so. 2013.7. They would not be likely to attend them?— I don't think so. 2018. Would you think a visit of the nurse to the homes of the people would be helpful?—Tee, more so

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95199. Miss McNarca.—In these a district nurse in to fown?-Yes. 20140. The CHAIRMAN.-Under whom does the distotat nume not?-Under the medical officers of the

Dill. Line the activation of more consequent to account of the contract of the 20169. Do you find many delicate and ill-nourished children in your district?—Yes, a large percentage. 26347. Is there may redical cause producing that result?—I attribute it to bad feeding—acasticible ined-

26148. Do you find children of tender years given what you regard as sheekedy unselfable food and nominarcons?—Yes. 20169. Ten?—Yes. I have known children a month old getting potatoos. I know a healthy child find on potatoon from a month old.

26350. Was it necessity that prompted the mosther to do that?—I would not say it was. It was not necessity.

10161. However, it is not a precise that you would recommend generally?—No; we don't monumend it.

Dr. Mocan Harry,—8th August, 1825.

2012. This toly took for even of her introvir into the core in lands, and introduct in an aber thoughty proper, according to her lightly—like the control of the lands of lands of

tions disease to the netth supply—Mo.
2013. No such tweeth has arisen in your district.
2013. There you had any authorate of anathsiant—
2013. Have you had any authorate of anathsiant—
2013. Yes have have you seems to believe that the tool supply was any your jumpusible—Mo. I had no
2013. Yes believe that the working-siese population
to not know, the value of milk a a. food for the norm.

striply was as may very transparation—Sts, I and an admittant processing the striply and the striply that population of set the man, the washest state of set the state of the striply and the striply as the striply as

silked. The accounts—arry survey is revert—about 2006. The Commence—there was youtfaces 'dwelling been provided in your silence; to relate the survey of the Commence—there was youtfaces 'dwelling been provided in your silence; to—loo account of the commentation when rends run to such a youtfallow figure—'that teen, do, a well, as for a windle was the commentation of the commentation

460°F. You, as Mellast Office of Health, here never been requisitional by the vectoriser; impactor to summer the conditions preventing to darker orbit the object of conforming in eigenome that the termentations were not in conformity with the Darkin and Constantia Conformity. Such that Darkin and Constantia Conformity with the Darkin and Contantia Conformity of the Conformity of the Township of the additional of milk—There have

been out or two.

20108. You have merer been called upon to give coldence with regard to there.—Yo.

2079. In 96 been much beauth asking carried on in the beaute of the poor?—In the rural district?

2077. Leaf.—I neath not my no.

2072. Your district sustence a rural area?—Yes.

2073. What are the conditions on the the insoure

2017. Year chieful markens a rend area—"No. 1813. What are the modifiers on the passage states of states are states of renderly and area of renderly are renderly area of renderly area of renderly area of renderly are renderly area of renderly area of renderly area of renderly are renderly area of renderly area of renderly area of renderly are renderly area of renderly area of renderly area of renderly are renderly area of renderly area.

segarated with six foods—No.

The six is the first of anology tends of the first of the six fixed to the fixed to the six fixed to the fixed to the six fixed to the six fixed to the six fixed to the six of the

2015. Face would to intensic context—In stillar SIRSS. The Context—As a falle was a SIRSS. The Context—As a fill receive received by the finding prevents compact the copations of the disputed context. The context of the disputed context of the disputed context of the disputed context. The context of the context of the disputed context of the disputed context of the disputed context. The context of the disputed context of the disputed

would in oil probability to theiry to produce the salt counts to salted by noted — I dear Nove that the counts to salted by noted — I dear Nove that the probability of the salted of the salted of the salted of the is major to salted only only of the salted of the salted is major to salted only of the salted on the salted of the salted only of the salted on the salted of the salted on the indicate of the salted on the salted of the salted of the SECRET OF THE SALTED ON THE SALTED ON THE SALTED ON SECRET ON THE SALTED ON THE SALTED ON THE SALTED ON THE SECRET ON THE SALTED ON THE SALTE

receive the aboutpy guidalities of separated uffit very state was branch that that of effective 10. What a man the second of the day of the large view of the second of th

2005. There are several articles and in the same one data varied be in min. The several state would be in min. The several state of the min. The several sever

that he daily surfaces? 2000Z. Veeb-III is quite a common thing. 2000Z. In it is quite a common thing. 2000Z. In it is quite a common thing. 2000Z. In it is common to the same who carries a farm for the farmer has milk for his surface. A farm for the farmer has milk for his surface. A farm for the farmer has milk for his surface. A farm for the farmer has a given quantity of milk?— No. 2005Z. We have been a given quantity of milk?— No. 2005Z. We have been a common did not permit where

would the historie pit his still supply from 2—Me would buy it.

20000, Would be buy is from the farman?—No, but from the man with one see.

20070. In some districts you might find absorring men as located that they might see be within reasonable distance of asols is presen, and might have to gowithout mild. See.

shie distance of solis is person, and might have be gowishout mill?—Wet.

\$6000. Do they we condensed milk?—I have not seen it.

16000. Or milk powder?—No.

10110. Have you had any experience of typhoid currier?—No, note. We have not had a case of typhoid the majority of them. or majorney or smem. 20043. You are satisfied that there is a large number of people who comest get a sufficient quantity of milk owing to not being able to pay for it, or ignorance?-

20242. Do the mothers name their children !... You.

Three are a certain precessage who cannot afford to

people who can get it and don't get it. 2024. They don't know the value of it?-Probably

20040. And the others caused get it because it is

On the other hand, there is a certain number

poeter instead of mile? That is the way. 26268. Have you say ince as to how to improve the position of these people who require milk and don't get it?—I cannot formulate any solution. 20209. Would you say that gland and bone troubles are on the increase or decrease?—I would say on the increase.
26250. Mr. O'Benex.—You say you have no pri-motary telesculasis here?—I have.
26251. You say in your priors of evidence that you

20221. Council the commuttee impress on her the importance of telling the mothers the value of milk?— Sile has enough to do. I think it would take a whole-time official to impress the value of milk and the reartiarrefore, you think a Babica' Club ight be valuable?—Yes. 2023. How you may infantile sheless in summer?— NULL. Here you any infantile choices is ammont?— We have not much of it. Hardly any this year, 250204. Miss McNexe.—This is not a year that it would be illusty to occur very much. Was there may last year?—No, more hat year; we might have an occusional care, but very few. have non-many cases or primorary servace realized years to tage.

2002. You think that such case have been brought in from outside—The mainly mind, the cause of the spread of occurrington in general is the fact of advanced control of concumption living and dying in the bosse, and non years—so, note his year; we might have an occurrenal croe, but very few.

30221. Ludy Evenave.—Do you find mothers make porridge for their children?—I would not say that, on To my mind, they don't make 20226. Do you find they use bakers' bread, and don't belir licene-made bread?—Few bake bread at licene. 20227. Would you not advocate home-made bread instead of balern' bread for children?—I 6on't know and it would be much difference.
20228. Sie Stewart Wecompour.—You said that

Indeeding is.

20033. You find that the people don's really recognize
the infectious nature of the disease?—People recognize it; but where is the provision to avoid it?

2024. When you have suspected cases, have you here able to get them to do anything towards inolation. 20220. And you attribute that partly to milk and in the milk or that it was due to want of milk?-To act of noile. 20031. Have you known of cases in which you believe that the tubercle germs in the milk were the eases of Subreplates in children?—I cannot say. 20032. In preverty increasing, do you think, in the district; are the people less ahis to hay sailk than they were, eay, ten years ago?—I would not say powerty in increasing. I term they are better off than they were.
2023S. What have they to pay for milk in the country districts—in the rural portions of your districts, when they buy it from the small farmers?—A

and knoping windows open, and that sort of thing?— Isolation in the homes of the weeking classes is absolutely impossible with the surroundings. absolutely impossible with the surroundings. been brought back by returned Asseriesna?-Yes. been unrages seen sy converge. I know one instance up the Lake when a see earm back, and he indected the whole faculty out of scietomor. I know another bouse whole family out of existence. I know another hos where another family was lost shough tuberculosis. 2027. Dr. Mousman, Do you find much amongst rotunned soldiers?—Very few. I have not a great knowledge of returned soldiers here. Occasionally we do find returned soldiers suffering from the disease. 20258, Lady Evenaus.—Are there may migratory labourers in your district?—No. 20250. Miss McNema.....It has been suggested to the Commission in other places that where there is an inability on the part of the prople to prosure milk some removined supply might be established?—That is so. But would the authorities do 15? I would like that on the locality

more from a phalanthropic point of view than as a tax 26260. The point raised is that it will probably tax the locality in some heavier degree in some other way if it is not dealt with?—You are dealing with tubercular 2026). I see referring to the general health of the locality?—Yes; but to my mind the local bedien have enough to grapple with at present, and the mare slow in carrying out what they have to do. 20202. You think the practical difficulties would be to great in connection with the establishment of a scheme of that kind?—They would not be too great if you had any administrative powers. If you had an Act it would get into abeyance, the other Acts. 25255. You think that the provision might be there had that the public bodies would not avail of 187-Onite so. 20064. Have you many cases of a family of six or seven children where the wages of the father are only 12s. a week; set there must of such cases?—There are a good faw of these. These cannot feed their children

20266. Will not they become a charge on the district ultimately?—I doe's think so.

milk we would have no need of cod-liver oil.

\$6290. Dr. Moonman.—I notice from your précis of evidence that you atata you have prescribed cod-liver oil as a substitute for butter fait.—Yes. 90377. That is, I presume, in cases where the people country get milk?—Where it is shackutely necessary for the skilds on's salty. 20238. Would these he children who have not plenty of mails?-I would not say so. 20229. Is it not in consequence of their not having a sufficient supply of milk that you give them the cod-liver oil?—Yes.

here for three years to the urban district; and I had

only three cases in my district in nighteen years. 2021]. Yest is a very exceptionally looky bill of

health?—E4.
20212. Lady Evrnano.—Are goes kept in Ennis-lellen?—There are about four in st—four or five.

2021A. Are they kept in the rural district?... Yes

20220. Is your name a Jublice name?-Yes

there is a presty fair amount of tuberculosis in

district-a good deal in the bones and glands?-Tea-

26520. Do voo mean that there were tuberale g

printy a plat would be the outside.

26004, So it is rather cheaper there than it is in the

26035. You don't attribute any of the summer

distribute that you have to the milk: you have very fittle number distribute?—Any distribute that we have may be attributed to bully feeling.

orban distinct?-It is chesper.

children on the mothers 24222. And,

volumble?—Yes. might

hand-to beene Vailte.

the ultrie, they do.

had feeding?-Yes.

28214. Are they nos a great bely in the milk supply?

26740. You would not look on cod-liver oil as an conomic or proper substitute for butter fat?-No. 20241. And if the people could get plenty of milk you would not have any necessity for getting cod-liver oil?

-There would not he so much need. If we had proper samelery surroundings and proper conditions and better

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Dr. Moore Berry .- 8th August, 1912. 30356. Do you think that a family can be reared on income like that?-No. secome and theor-to.

20207. And are they not likely to be a charge upon

the district!-Eventually 20378. That is what I meant?-Yen. 2029. So it is hardly an economy to avoid meeting is one now?—No; it is false economy. 2029. But you don't think the municipal authori-

likes to be pesent time, generally speaking, would be likely to take the matter un?—No. 2027). You also allude to a case of tuberculous uder sine were children. under nine years? - hes. 90272. Over nice years one finds primoner 98272. Oven nino years one flods princoury eco-sumption more common than under nine years—Vev. 20273. In these much factory word or instructed work for mathors in this destrict.—We have presidently work. 20274. There is very little work for married vorms in Eurobidian 1—They have no besteey work. 20275. They have no work that will interfere with

the rearing of their oblideen?-No; we have no factors

22276. The CRAMMAN,-I would be glad to know your epinion about subsidiaring a milk angely for the working population, and ubother you think it sould be no economical administration of public funds

be no economical administration of public funds to have the children reason in such a way, and regraded to scale a margor, as would course their growing up strong men and women?—You. 26377. And if at this and all at the

many, And if it did quiall at the outset scene abili-tional burthen on public fiends, don't you think it would ultimately become reproductive in its results?— Yes. 26279. It would save an expenditure on outbreeks of

of the community are the first to become affected. It would save expenditure on workbonnes and asylumn?-Yes, general expenditure. 20279. And, although it might arouse some un preferrir in the public reind at the outset, in all pro-

ability, when the people would come to realise what its effects were, they would become more telerant of the additional burthen?-I think so. 20280. Would you not also be in favour of having such administration as that supervised rigidly from sec

central source, which would insist on having it carried out ig a legitimate way. Representations would be out in a legitimate way. Representations would be made, say, by medical officers, who would have the best first-band innowledge of the conditions under which the working-class population were fed; they would report to their Council, and there would be some central authority to supervise the administration these Councils, to see that the representations made by the medical officers were not overlooked?—Yes.

other band, the medical officers in most places hold only careal appointments. 20281, Mr. O'Brans,-What do you mean by " casual suredistrements "?-Three is no nerticular attention reld

20202, The CHARRASS.-I understood, Mr. Wirete von are Chairman of the Public Health Committee in Earlighten ?-Yes, sir. 260743. And you are also, I believe, manager of the Sectatah Wholessle Co-operative Society in this town?

20204. We have had from the Chairman of the Urbea. Commel a history of the steps taken by your Council for carrying out the provisions of the Duiries and Cowshols Opter, and I need not take you over the

20250. I would like to know if, in your opinion, there is any sourcity of milk in the urban area at any period of the year?-There is no scarcity of milk, particularly of the year?—There is no severaty of man, passed in the summer season, but there is a scarnity of milk in the winter season. The vendors of milk in Ennishellon can supply the wants of the people in every dried dering the summer; so much so , that they have dried diring an summer; so muce so, here were serve more milk coming into the town than they can dispose of in the summer, became I have reason to know that

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26306. They have a surplus after their customers are supplied?—Yes, some of them, in the summer 26297. Do Does your creamery work during the entire

to public health. Take, for instance, the medical officer of a dispersury. You ownest expect him to deal with public health unities if he is extending members of a family; you extract expect him to make a mantary report about the bouse, or the people will not have 2022. The Chamman.—That is why I suggest control

control—that that officer will not be allowed to hold his appointment unless be conscientizedly discharges his detice in all its benches, and when it becomes known that every doctor will have to conform with the regulations laid from, then I take it that the obtretion that you make to the local feeling would recessarily disappear, because every deter would be obliged to do exactly the same thing?—On the other hand, there are join of us obliged to do things we can not do. A solution of that problem is the appointing of an independent officer. 20380. I quite not your point; but what I want to

testion of the idea you have in your mind you would want the co-operation of the medical practitioners?-20284. What you would suggest is that the melical officer in charge of a case would make a report to the uners in energy of a case would make a report medical officer of health?—Yes; a private report 90985. I understand what you mean—sinwhat you mean-that the

9898. I understand what you mean—that the private practitions whoth make a report to the underly office that he had found a modifies of things that was unsatisfactory in the course of his practice, and the centrally appointed officer should go and investigate that questions for kinetif, and they whatever action has thought wise necessary?—That is my \$6385. Ledy Evenara.-You want him, roughly, to act on the frees of the toberculosis officers who will be ppointed under the Insumnor Acts—I work him in-

dependent of the public. 26587. Dr. Noossuas, ... A central medical officer of builts or county medical effort to discharge his duties efficiently would have plenty to do?-He would be a full-time officer.

20288. And his time would be fully employed?-I quite agree with you. 2029. Lady Evenane.-I think the same thong

applies to a veterinary surpron?-II does, 20290. The Commission had evidence from veterinary segrous that if a whole-time veterinary imperior was ppeinted he would make a great difference, because he would be quite independent?-Yes. 2023). Dr. Moowrean.—You are of opinion that the Sanitary Acts are perfectly inoperative without the existence of such a medical officer as you have indi-

Mr. William R. Weren, J.F., exemined. 20268. It works summer and winter?-Daily in summer, and two or three days in the week in the winter

cated?-Quite so.

50599. Do you sell milk retail at any period at your 28300. Have you over been applied to to sell nelk retails...No. 20001. Do any of the creameries with which you are

familiar in the district sell milk retail?-Not that I am SPRING AL aware of. 2002. Whether proprietary or cooperative?—Yes; I son not aware of any of them that do that. 2003. Lody Evanuar.—World they do so if they were asked?—I don't how. I connot say. I can only

score. Lady Evenano.—World they do so if t were asked?—I don't know. I contot say. I can e rook for one recurrery. I don't think we would proposed to do it. repared to do it. 20304. The CHARDESS.—You would think that an order that would compel the oreameries to supply milk retail would be Eisely to hamper the courying on of the trade?—It would. It would entail a wast amount of labour, which we are not prepared to undertake.
Of course, if there are compulsory powers made, I Of course, if there are compulsory powers made, I suppose it will have to be done; but in the conditions

under which we work one husiness we are not prepared 26503. I don't use the words "retailing milk " is the ordinary way that would be applied in the case of

a grober retailing his warrs. What I did suggest in the estaffing of milk would be this; At a cepture presed the establing of more would be wat: As a certain period, in the merming or eventing, for an lower or two, is sub-be possible for a preson requiring milk to go to a certainty and got the. That is the enses in which I spoke of having milk sold retail. How for would such a contour as that interfere with the managination of oregramy?—B would upon the consting arrangements of the tenamery; and I don't think that I and my from at I and my from You will underof the commercy; and I can't write that I am my myn would be prepared to entertain it. You will under attend that I am only manager of this oreamery, and I named any for certain what the directors would do

the metter; but I give you my personal opinion. 26506. I want to know from you, as a peacitical man, how far the coteblishment of such a custom as I have

now are the contentions to their dension at I have majested world litterine with the management of creamagement—14 would interfere in this way—it would reade a new system of booklearpan; 18607. I don't suggest for a meanerst that there should be not credit given, but that the miles should be for each?—Salas for each require to be colored. to for each — Salas for sain require to he contend.

3898. I was you to book at this question, if you place, from the point of view of the Germanous. The disease, from the point of view of the Germanous. The disease is the point of view of the Germanous. The disease is the point of the content of the saint of the content of the conten

ome to the equalization that it is well-founded, and it come to use consument unit is in wan number, and it is should be disposed to make a recommendation that Is about the mappined to make a recommendation that remainers should sell mills retail when applied to for it, would you think that would be an unreasonable condition to impose on memory managers and pro-periotes?—I do become if there was a scarcity of milk prantomerous do accesse it more was a soundity of milk there is nothing to provest vendors from making st-magements with the farmers to supply them with more milk. The farmers being milk to our converse. They

come or leave. an come of leave.
26309. They are voluntary supplices?—Yeo; voluntary suppliers I won't labour the question further. I have our opinion that it would be on meconomiable ourdilice to impose on erranery managers to sak them to ortal relic*—Yes; I think it is urreasonable, because

vendoes of the mife can procure extra supplies of if they monite it. 26511. From the director from which you draw your 20011. From the dwirted from which you draw your supply, obviously you limit his surply! overlibed for sale in that district, and it is in those districted Lineva sales whicher you think it would be reasonable to enquire organization to sail! milk retail. Here you any concess to complete or the manner in which the milk is supplied to your creamony?—We have no reason to composit not below the milk is easy little in the contract of the sales are tool in.

26513. From the point of view of classifiness, or stherwise?—From the point of view of classifiness, we have pretain rules that we adopt, and we have pertain executanticum that take place, and surprise visits by the Inspector of the Department of Agriculture, who precise on those matters. In addition to that, we make a point that we will take no malk unless it as perfectly swood, and the care are clean end in good condition.

We have frequently refused milk, 20018. What would impore to the 2018. What would happen to the milk that would be referred by you?—The incurre would telm it back. 2014. World it be talon in by other crossories?—I don't think so. There was a little difficulty shout it at one time—that when we refused sold it was taken by another encounty. We made an arrangement in hy another encouncy. We made an asymptotical to over districts that where milk was refused by one oreamony for being in an unit state the neighbouring overmony he nghilled of the fact, and if presented that oreasympt part morning should not be taken. That

rule has been adopted \$6015. That has not been the universal experience; because we have here told expendedly that if a farmer's milk is retued by one orearmery it is taken by another? —I admit that. We have had experience of that; but we -I admit that. We have had experience of that; not we got over it by making arrangements with the

96316. Has it been loyally observed?-Yesmake our managers observe it. 26317. Has it really been followed rigidly, and do no know from soical experience that it is followed by every eronmery manager?-Yes, in our district-

28128. And you, from time to time, receive notifica tions from cortain oreameries that a supplier's milk has been returned, and if that supplier comes to you, you also return \$17-km. The result of the anyangement that we have pensionly no come for complaint smoot we adopted it. Prope to that we had many cases. 2020. What effect has that custom on the conflictor. in which the milk in sent in?—It has improved it; because they have to be more careful or they will gut

Mr. WHALLE B: WHYER, 4.2.-- 650 :

to railly returned.

Sign. How often in a month world you be obliged to return milk because you were disastisfied with its condition.—I cannot arrays appears that practically reduced to all.

SERVI. Does it occur once a month?—I don't think it would occur more than once a menth. It would not po over oppe a month.

20122. I want to find out how far the custom has been railly observed. You spoke of the impaction of the co-operative ecumentum by the officer of the Depart-ment: is your creamery imposted by the same officer? Fig. all commerces are. 20023, For make no objection to that impaction?— o. We are registered under the Department, and

socooling to the registration, we are hable to imper-

sion.

The problem of the large from here you may already to experience the control of the problem of the problem, and impacts the mile, and if he finds anything considerant in the problem of the problem, and impacts the mile, and if he finds anything considerant in the problem of the problem, and the problem of the problem, and the problem of the problem, and the problem of the problem of the problem of the problem of the problem, and the problem of t an improvement that he can suggest to farmers he tells them what should be done, and any suggrestons that he makes are in nearly all cases carried out. We welcome impaction of that kind, because it does an immerse amount of good.

2022. It is bright to you in securing your milk in the condition you desire to have \$7—Yes. 26320. Do you have any sale of expended milk in your onsance? 3—No. your onsance?—No.
5000. Their in returned to the constriction?—Yes.
5000. Their long do you think separated milk will
harp seven after it in retreased. Pol comes, it depends
for a fix and the service of the comes, it depends
for it is accorded down.
5000. What is the cisator. Sidewed in your creature;
with equal to the bracking of the milk?—We pasteraise
all cor milk and coof it down.

2000. To what temperature do you raise ist—180 185 depress Fabrenbrik. 20031. Do you invariably raise it to that tempera-20172. At all sessons of the year?—Yes. 36360. From 180 to 185 decrees?—Yes.

26306. From SO to 180 degrees?—Zus. 26334. By what muthod—is it passed over a sylinder or passed through takes?—The milk is bested by steam. 26335. And des critics body of the milk is bested from 190 to 185 degrees?—Zus.

26336. Dr. Moccanan.—In halk?—Yes. 26337. The Grammar.—How long is it subjected to that homogenture?—Not more than fire minutes. 26338. What constitute of mile would be in the wassel nt the time that it is entreeted to that temperature?-

of the sizes has 0 to a regression or was transported.

25.10. It is only a pretion of the milk that, comes in contrast with the heatest archine that is reised to that temperature, or is the ratios body related to 100 March 1984. Him Morkett, "Well to the third temperature of the milk token after hereing the vomith—Lea.

Section 1. A structure 130 to 100 days on 1.** The section of the temperature of the milk token after hereing the vomith—Lea.

Section 1. A structure 130 to 100 days on 1.** The section 1.**

it veries.

26043. Mr. O'Buzus.—Down to what temperature is
the milk contel?—To 80 or 90 degrees by means of

20244. The Christian -What quantity of mild de you deal with it your creaturey in the summer season? —We have sight sundings consuments, and we have our certail creatury here in Rentishing. We simply do the expansion of the sundiardes, and we have our cream halo Rentishilles and manufacture the briter.

hove.

Mr. Witzest B. Warre, s.r.—Sth August, 1919.

26245. Do you pasternise the gream after the separa-20040. 10 year manufacture as around a second to the place?—No. 20040. You do nothing further with the cream?—No. 26847. The temperature is not again increased in any may after the gream is extracted?...No.

26568. What quantity of milk could be dealt with stoods while quinting of mix could be come wise in this year by your auxiliaries feeding year control creamer?—In a day we get about 15,800 gallons. 303 Fe. Mr. O'Bents.—Two don's apparate on Sur-day?—No. We only separate com a day. 26500. The Cuntimes, "Me work is dure on Sunday?

20051. Is the milk on the Monday morning in the hot scann sour?—There is sometimes a little difficulty

during the worm weather; but the farmers, as a rule, chura their Saturday night's and Scoday murning's sails for themselves. None of the promounts in the North work on Sundays at all, Section were on numerys as an 28582. Here long have you been in obserge of this resummery—Stone is was opened, thirdeen years ago 28582. Can you form any opinion as to whether the milk yield of this cow has varied in any way in this time, improved or distancepored?—It has improved.

time, improved or disinsperved—It has improved.

26254. The yield has increased?—It is: increased.

26254. The yield has increased?—It is: mile supply. In 1911 the supply was extensely small.

26265. Their was no alternal season?—Yes. This

year three would be an increase of 20 per cent. over 20550. As a result of the altered condition of vegeta-

2015.0. As a result of the aftered condition of regeta-tion—Tex. 2017. Taking an average of three or four years, is it your opinion that the raffix yield from the core has increased, in your experience of theritern years—Tex. 2000. In that admitted and recognised by the far-ners—I is

26009. Because the corteary opinion has been exproceed in a variety of instances, and I wanted to know what is the condition in your operation, and if you could suggest any cannot that led up to 187—When the creaments were first started it was a new system to the farmers. The milk is bought at the creamery subject to the bester fat it contains. The number of cours in this district would be from five to ben on an average farm. If a farmer had an average light test to his milk we would recommend that farmer to bring in to us

cuch cow's milk separately. We would test it for him. and if he had a cow that had a low test me would advise him to get rid of that cow; and that has here carried out to a large extens, and it has brought about a creat improvement.
26860. That is the weeling-out process?---Yes

20361. And you help them as far as your experience goes in carrying out the experiences to determine which is the poor miller and which is the profitable datay servents - Yen; and we advise him to dispose of the

2002. Is your winter supply increasing or decreas-ing 5.—It is at a standard!. Our winter supply of milk here, compared with our summer supply, in that we would get as much in one day in summer as in ten days in winter.

20003. What is the difference between the winter and summer price?—The price of milk is regulated according to the price of butter. If butter is a good price, there is a hetter price for milk; and if it is a ow price, there will be a low price fee the milk.

20354. What is the average price for July and August3—Last mouth's price would average 42d, or 4dd, for botter fet. 28065. And in May and June?—About on average of 41d. for butter tal.

26066. And in the minter season?-The average would be shows Sid. in the winter assum, up to 6d. for butter fat.

26867. Mr. O'Benry,-For hutter-fat alone?-Yes. 26368. The CRAITMAN,-You shways give them the

separated milk back?—I'm; and we give them a pro-portion of the butternille. 28300. Do you think that milk could be profused for minter dairying at the price of 44d, per gallon?--L

don't think so. 26570. With what object do those who supply you is the winter earny on winter dairying? In it as an economic undertaking to increase their strust-increase?

—It just depends on bore the farmers have their cover.

scheme that would make winter dairying more popular chan it in?—No, but I always have been trying to get farmers to have their cown calving at various sensons of the year, so that they can give us a more uniform anyphy, but the farmers say it does not pay them to

26376. The complaint always in that winter deleying does not pay, because of the exponent of feeding the cove out the price that is available for mile?—Yes, 28377. Farmers don't set themselves out to provide

26871. In some districts we have here told there as no winter calving at all. Here you have winter calv-ing, and I want to know why these who are engaged in the deliverse reflectly arrange to have runter dury.

season is Blody to give a larger yield of milk in twelve mouths than the row calving in Morch or April5—I

2017). You merer heard an opinion expressed on that question?—No. 2037). Nr. O'Baux.—Do the farmers in your dis-trict keep malk records?—Very few. 2017). Miss McChrun.—Decs the diminished winter

2034. Miss McNerra.—Does the diministed winter supply affect your pricole—Yes; it is a great dimensels to us, this small supply we get in winter. It is very injerious to the Iradi trade. MSTC. The Caussex.—Have you thought of say

Do you think that the cow oalving to the winter

winter feeding, which would be likely to increase the flow of milk in the minter senson?—No.

ther of milk in the winter season?—No. 20078. It shere any development in this growing of ontob-crops for the winter and spring seasona?—No. 20079. No effort is made to attend to the flow of wilk in that way?—No: there might be exceptional cases been still fairer. We have one or two farmers in

the district who are a bit cutorprising, but generally there is no improvement. 2000. Amongst those that have increased their

20000. Amongst those that have increased their water supply as a result of experiments, they have found that they can raise is more profitably?—He possible in so development from the petrol of their side, and far as your experiment goar?—Ho ... 20030. Mr. OTHERS.—Do you from what has average 20030. Mr. OTHERS.—Do you from what has average the contract of the contract would be per year?—It is very the contract of the contract of the period of the contract that the contract tha two-and a half gallone a day, and others give up to

the sub-ball galline a say, and once gave up or galline.

26000, The Channess—Mr. O'Brien was more inter

26000, The Channess—Mr. O'Brien was more inter

26000, The Channess—Dr you have many sees with

26000, Mr. O'Brien—Dr you have many sees with

26000, The Channess—Whost would not have a tig

26000, The Channess—Whost would you regard as

26000, The Channess—Whost would you regard as

26000, The Channess—Whost weedly you regard as

about the average yield of a cow in this district-400 to 500 gallons a year?-450 to 480.

2000, Mr. O'Bazze,-Cortainly, winter dairying would not pay at that figure. The CHARMAN.-And at 44d. a gallon.

other districts that there was a more marked difference between the summer and winter prices than exist in this district?—These is some milk that we pay as high as 7d. a gallon for, but it depends on the quality of the milk. In December and January it is 64d, to 54d, a

26687. To what do you attribute the increased weight of batter hit in the relie which produces the higher price; is it the land on which the cows are fed or the of master life in one more wantly produces was support
priors; is by the lead on which the cowe are fed or the
artificial feeling?—There is a good deal in the green.
\$1000. Do you find that some lands yield a persistently poor quality of milit?—Then.

gallon on an average.

28886. Do you find it impossible to impoquality with artificial feeding?—We find that the milk some farmers in the same tornisads is considerably better than their neighbours almost adjoining them. on only attribute that principally to the measure, or to the cows themselves; and that is one of the resonn why we sak the intraces to have each cow's milk tested, so that they could wood out the unprofitable cown

26560. What breed of cows is used here?--The occaskred shorthoen mostly.

2659). Have you any experience of the milk yield of the pure-head shorthorn $1-N_0$. 26500. Do any keepers of perc-bred shorthorn hands send milk to your creamony 5-No: not that I am assure 26860. Are there many labourers' allotments in the

district? Yes.

25394. Do any of these keep count-Some keep our and more two open of more two cows. 26995. And de they send milk to the creamony?... And de they send must to the creamery....

We have a number of one-cow suppliers.

Some of these might be occupants of cettarga? Some do.

Some of these might be companied of ethicards.

"Some fibrores, or occupied to companie of ethicards.

"Some fibrores, or occupied of collagon.

Sport. Do you happen to know if it is the crustom for the farmer to give a quantity of milk to the labourer who is wasting on this farm as portion of his wagents.

I think it is in the way of giving them the use of a.

\$6000. How for does that oustom prevail of giving the laborrees the use of a new?....I think it prevails to

every case.

\$6306. Bay, a farmer keeping ten cows, would be give the use of a row to the labourer that would be engaged on his land?—Yes: that is done frequently. Almost universally?—I think it is

1600. Almost university?—I think is is proxy wireful shout born. He gives the labourer that use of a cow, and greates to on the own land.

5600. The cow is the property of the furnary?—Υςε, 5600. And is feet with his corn?—No. The cow belongs to the farmer, and he orn change it.

9500. Lady Remarks.—What does the inforcer pay fee the use of this corn?—I extraor say. It is part of the use of this corn?—I extraor say. It is part of his agreement.

26404. Mr. O'Banns.—What are his wages here in such obsermaturous?—I carnot say.

such deserminations?—If control say, 16405. The Channess—Have you army beard may complaint of any dairy farmers finding it difficult to priouse the measury labour to attend to their court? -Labour is susroe in the district. 26406. Mr. O'BREEN,-They are mostly small forward n the district?-You. The farmers in this district find it very difficult to procure labour.

26407. The CHARGES .- In that owing to the sourcity puncils?—Smignation is taking a but swar of the persuits?-Renignation is taking a lot away of the abouring class, and the formers find it more difficult to prover below.

26408. There is no missadies of labour to England or Southand?-Yes.

20410. They perelatently go year after year?-Yes. 20410. In the spring and summer account?-AR the year round propin are going to Regions or Sociland, or America or Canada. 2641). This is what our would call the ordinary emigration, which is, unfertunately, too prevalent over the country, but is there on random of the labouring population to England and Sardand 1—That does not

enit so nuck in this district or in the West. \$6412. And in Donegal?—Yes, there is a scarcite \$5410. In the amerity of labour responsible to any way for the limitation in the number of cows kept?—
I would not think so: I don't think it tenand to

reduction in the number of cave level. \$5416. It has been represented to the Commission other districts that the workingous service required in the care and lecking after of the cows makes the week topogniar with histoners, and that they prefer to mongo in other corrupations that give there the Sunday from Have you brased the collinary daily farmers com-pleting in this districts—I have beard the farmers perturning that it is impossible to proceed labour for work in connection with the form. They cannot get

help; so much so that it is almost impossible for them to carry on their furnising in the way it ought to be 28414. Does that lend to the restriction of tillage and the inability to find winter feeding for winter durying? It must have some effect. 95416. That would indirectly operate on the milk yield and on the knoping of cows in milk in the winter season, when they require more cure and attention?— Undoubtedly, it would have an effect to that way.

25417. Here you found any marked difference be-breen the yield of hotter for in the morning and in the curring?—We cannot tell that, because we only take to the milk in the morning. 26418. It is the rated wilk of the morning and evening 1-Xm.

26419. Mr. O'Benne.-Do they mix the milk?-Yes 26420. Don't you consider that rather a had prinple-petting the hol mile on the mile of the might before?-The milk is cooled down

* Mr. Witten B. Wwite, s.P. with August, 1912. 26421. The CHamman,-How is it cooled down?-25422. By the immersion of the vessel in water?-

28422. By the inconsense at the vessus in water-yes. We shall this the morning's and the evening's milk by logic separate. There are exceptional cases where they mick the milk, but where they do so, it to cocked drows. We loop the night's milk by itself and the morning's milk by itself. In some cases we get

With water.

arroses.—acc.
20424. You only take the milk is as you are specification—That is so.
12025. The Countries.—Are proper steps taken by 19495. The Chamman, Am proper steps taken by the farmers to store their milk?—Tes. It is their referred to look after the milk, otherwise it will referest to look after the milk, otherwise it will be refused, and they are compelled to keep their milk be refused, and they are compelled to keep their milk property. They bring it in in good condition. In fart, we have practically no trouble in that way in our dis-25426. In it ever reported to your creamany that in the home of a certain supplier infactions disease has broken cost?...No. We never had any case of infactions disease

20427. And the colfs is required indiscriminately from all farmers, whether these connected with the hostiling of the milk or in the hostiched of the farmer himself are in good health or observance—Tree. If there was a case of indectories discuss in the house a farmer we would stop receiving the milk from 25428. Do you ever mosive a notification from the Medical Officer of Houlth that infreshees disease has broken out in the premuses of any farmer supplying our occumery?-Ees; we had use or two cases in the your creamery?-20439. Do you get some milk from Leitrim?—Yes; we have one of our sumiliaries in Leitrim.

25450. What setion was taken in that case?--We funci to take the farmer's milk.

Soull. For what period?—Until the medical officer
relified that it was and to take it.

20432. And do you propies that certificate from the medical officer?—You; he notifies us when the disease is supposed to be obsteed out, and we have enabled talk with the medical officer, and if he reports satisfactorily the mells is received.

26435. How often has that occurred in five years! 20-233. How come may man occurred It was greater.
In Stricture years we have had only short three cases.
20-244. Do you know whether the farmers are caseful in selecting the cows flory long, and whom they rear
cows from calves that they acted helters whose days. berr here good military—As for as they one they do. 9435. They are then to the necessity of making every effort to secon that the even will be the best military-ding cover that it is possible to procure? mile yielding cover They are all hey are alive to that.

26481. Here you over board may complaint mode against the introduction of premium hulls as being inimical to the milk supply?—No. The vaterinary

surgron will be side to answer that question better

20497. One while imagine that a passon coming into context with the formers as you do would have been completized of all the formers and the which the stock as sub-picked—Any convensation I have with the formers picked—Any convensation I have with the formers of the convention of the stock as a sub-picked—Any convention of the former of the former of the former of the former of the sub-picked and the former of the former of the former of the convention of the former of the sub-picked of the convention of the great picked of the convention of the great picked of the convention of the great picked of the convention of the picked on the convention of the picked of the convention of the picked of 27677. One would imagine that a person coming int are alive to the importunes of the matter. 95435. Mr. O'Burgot.-Have the Department estabsized say egw-testing associations in this district?-Yes, several. 2010). The Cramman.—Are they outshing on?—Yes. 2010). Do you think that they will be helpful in increasing the milk yield?—I think to. 254427 Con. you suggest now helior method?-No.

20442. Is the milk ever subjected to backeriological exemination for the presence of taborele germa?-Yes; by the authorities from time to time. 26445. Never by the crosmery sutborities?-No. 5044. Had you over reason to respect that the rellion unsound now was being sent into your creamers? 25445. No such assess ever cause under your obser-

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Mr. WILLIAM R. WETTE, J.F .- Stà duquet, 1912. 2660. And none of the veterinary officers who are

holding appointments in the various districts from againg apparaments in the various distincts from which your nills anguly is derve have ever reported to you that one of your suppliers had one or two un-healthy cown in their heaft.—No. 20447. Leely Eventan.—What generates have you that the milk supplied to your creamony does not come from infected cows?—I have no guarantes. The local authority is the only ginzantos as have—the veterinary surgices who is appointed by the District Council to surgicia who is apprished by the District cursuum to see into these matters. 2004B, Do you know if the farmers feed their enlyes con appreciate infill?—Not which. When a core culven the farmer does not said the milk into the arranger for short force weeks. Afterwards, the arranger of the supermixed milk, but it is appreciately with three the consequence of the control of the control of the control between week tripleton effects on the culture land.

18449. You nave not nearl of the separates must having any injurious effect on the calven?—No. I made inquiries about that, and the farmers say that toy eas year as good calves as ever they did. 20460. Sir Synwam Weconorm.—What is the siz of that receptuals in which the nilk is ushed to 180 or 185 dagmen Fahrenheit; shoot how many gallons of milk would it held?—120 or 180 gallons.

3660. How is the best speked?—Exhruns riesm. or live steam.

Fire steeps.

26463. Does it surround it as a judget?—Yes.

26463. There are no tubes through it?—No.

26464. How long is the separated milk in the establishment before the farmure come for it as a rule?— When the farmer delivers his new milk it is taken in

When the furner delivers his new milk it is taken in at one philten, and when he goes to the claim end of the beliefing he gife his separated milk. Selection 1995; William half an heart-Whita ten special position with half an heart-Whita ten in relaxable immediately "-Tax. "Belle the selection of the vice of 1995?. Does till that milk go to calves, or do you know it any of it used for domestic purposest"—it was and for ouleves. I foun't links any of it is used for domestic purposes.

26438. What would be the objection

2000. What would be the objection to its being used for demattle purposes spot from the last that it does not contain better full—It is not used for demantic purposes, sully for feeding calves or play. 2009. Here you ever taken a drain of supersted with yourself—Often. 25450. Would you know it from cedinary sweet milk 2-Yes milk -- Yes.

36401. Has it an objectionable tests?---No; I have stless if frequently.

26402. You would take it immediately after apparaestion? After it couled flows. If the separated

ration—Arter to soled down. If the superrated resilies such out from the commany without being out of the superrated resilies and the superrate and the supe 26457. And it all sticins to that temperature of 180

or MS degreet—Tes.

18466. Are the vrenth in which the farmers deliver
this milk selection is your greatery?—No: the
terrocce hole other their venech themselves.

9849. Them is no obtain juju at the createry for
the jupose of dearing the firmer venedata—No.
the jupose of dearing the firmer venedata—No.
the purpose of dearing the firmer venedata—No. or 185 dearges?-Tes. 25470. But the vessels in which formers bring their mile are not cleaned at the eresencries?-Not by us.

but they see hy the farmer. 2017). Are they cleaned after delivering the milk? -No: they put the separated milk into them. 20472. The ease go back in the same condition as they series?—Exactly.

2047h. Have you say large producer of milk in the district, are there may poople who keep investy or district, are there may poople who keep investy or district covery—d think very few Brunter would keep more than ten cover. Five to ten cover would be the securing of the farmance here. For would get a few store team ten cown. Five to ten cown works see a sworage of the farmers here. You would get a fe probably with fifteen cown; but they are very inw. 25474. You don't know the conditions under which these cows are kept?-In what way do you mean? 26478. With regard to their surroundings, housing and all that kind of thing?—I am frequently about the country districts, and the conditions are, I consider, satisfactory.

25476. Cinardy?--Yes. 25477. And the nown are healthy as far as you can 26478, Mr. O'Buttes.-You don't steam farmers' our at the creamery before putting in the separated milk? 26479. World you consider that advisable built deals

think so.

26400. You are quite satisfied with the elevations of the versels brought in?—Yes. You have done owny with the bress vessels?-It is morely done away with. inside the vessels?—It is morely done away with.

16482. Do you allow the suppliers to put any cloths ander the Edit?-No. 25416. Do they use my of these this shoets of metal?--Some of them do.

20484. I suppose none of the case are looked wisco they come into the commercy?—No. 25555. It would be too cumbersome, and you would 20000. It within to too commitments, and you were not have time to unlock them sill—Lies, difficult for 20080. You said you thought it would be pror company to sill mill resill—Lie. I don't think we would agree to that. Besties, there is no necessity for it, because the readers when they waste milk our for it, beausing the readers when they wash milk on arrangs with the farmess for a supply.

35097. I can understand that it would be difficult to itsil half a paint or a pint to overy person wanting the milt, but it ought not to be difficult for the centrary to give a doped thrifty or dotty politics of milk is day. Wend you understant that "I don't know that we would understant is, her it would be a better that we would understant it, her its would be a better

arresponent tion the other one Arridgement unan use onser one.
24.680 Auppoints gargens started a depet in the town
of Basishilles, they could not go to one farmer in the
district and start him to consense for forty gallens a
day writte and summer; they carmed got its—They rold got it. 20450. Is there a single framer who could undertake

supply that quantity?-You ordin got a couple of 25 supply and patterns, and the state of the same of three.
26400. It would be more difficult to acrenge with those formers then with the oreanery. Do you think the creamery would undertake the supply if there was

the centarity would undertake the supply it there was a depot?—I don't brink so.

18491. They would get more for it than for their hander—Our flow would not known by the like means; then it a mill depot we ambilished in Hamisellien there would be no difficulty for this depot to make excess grammats with the furname to supply it with sailly independent of the continuous of the continuous control of the control independent of the creamers

milk?—The farmers with the separated sells. If I sell the whole milk of the commers what would the farne whole milk or the comment was when my in-iers do for their separated milk. 2640c. The CHAIRMAN—The obvious answer is their a would knop what he requires at home. 26466. The DRIVENAN —The corrison manager which is required to what he requires as home. Mr. O'BRIEN.—Tore according to the burster fits—The analysis of the properties and you pre seconding to the burster fits—The 26468. But your suppliers are not mambers—No. 26469. It is preprietary in this seems—No. 26469. They have no value in assisting the priori—

No. 26400. What do you do with the washings of your counterdes—are they run into a stream?—Yes. 26500. For have had no trouble about positing the stream?-No.

26503. What do you do with the sladge in the sope-rating bowls?---We have to take it out. 25502. And what do you do with it?-We not it into s manure pit. 25555. You don't destroy 157-No.

25504. Tou never had any trouble from 165-No. 25506. Is is shiff that does not get putrid, but is does not reaish very quickly?—So. I never had any trouble in that way. I shall be glid to show tho creamary to the Commission if they have time to visit

26506. You receive from similiaries mainly?—You 20007. How many polices do you sepecate a day here?—Twelve to thirteen hundred gallors in the Beverend George McMun., P.P., D.D., examined.

Side The Chitester of Mercel Orional Monte Model, for an Interest of Medicine and M was morroom by the meaning Officer of Health, Dr. Eally, that they cannot obtain milk during the winter some for love or money.

season for love or minory.

\$6550. It is not procumble even if they had money?

—No; it is a movestalouse lecality. The archic lease is very finited. They don't keep more than one one, and in the winter size goes dry. The people are in a very alignet condition.

18811. Christophy the children in that district would not be puperly neurished?—Not at all. They are

addised. Bloodless?—Yes. I school Dr. Kelly if he had many coses of consemption—pulmonary consemption, or glassialist joint tecchie, and he took that he had only one or two cases, and I was nother has he had only one of two cases, but I was states experient at their support of the property of the property

was year good militer and then its wears to see a 1981. This would be initially stated on a bread of good had word plain milks to his minute season. "Near 1981. The would have good milks be good reason to the plain of the plai

2697. In the districts in which the presential exist, how far do you think they would be responsible for the limitation of the nilk supply?—Store is a general solver point the execution to over district.

361R Don that provail in your districts—Yes. They say that in the days gone by the butternill was rich and of a good quality, and very wholescens and that is now altogather a thing of the peat. 26519. Do they allege that the butter from the teamery is better?—Yea.

26523. One quite recognises that the loss of the letternilk is a great drawback — Yes, and nothing one compensate for it. It is sed to think that there were not near at many cases of tuberculosis previous 20021, Mr. O'Barra .- Don't you think the people got villated with the tea-drinking !- That is another

cause of weakening them. 20022. The CHARMAN.—The question arises as to how far the limitation of the milk supply has been responsible for the extended of the te-drinking halit. They set and re-art on each other?—Tos. 20023. Is any use made of the senarated milk from MOON. Is any use made or the separation and areas the creamery for domestic purposes.—I am told it is wantedly; that for pigs and calves it is not suitable values something is added to it. Valess sometaing its some we re-2000d. It is quite recognised that the climination of the hutter-fat improvesishes it to such a degree that it will not match solumbs in a vigorous state, without

supplying the butter-fot?-Yes.

20025. Do the farmers add the fat?-Yes; they add 16023. De the former odd the tals—Tax; they all much so fifts, and a taken are very coulty the open-ments and first, and a taken are very coulty the open-tion of the state of the state of the state of the 16023. Whicher or not the out of the vibra milk in little quantifies instead of the out of the separate little and the state of the state of the could not be a tetter facility useful of the milk piele to be a retire facility useful or the milk piele to be a retire facility of the state of the state of the 16022. What is your options took the milk piele to be considered to the state of the state of the state of the country of the state of the st

The Ayrebires are good for milk. 20020. Are there many Ayrahires in your district?— Yes; there is a man who has some amongst his herd. 20039. Of owine, it is quite a recognised thing that the Ayeshires are a good breed of universe for milk production, but unfortunately the obstraing is not a good ment producer?—No; not so good as the Polled

good most preducers—Now, role to good as the Rolled Meet. And the survey of the Polled Alego layer lies (Polled Alego Layer lies (Polled Alego Layer lies)). The Society and the survey representation. Then the blues more some just some very presentant. Then the blues more some just become and the necessary of the survey presents of the necessary probability recognition and the survey of the s

26688. Would you think that the imposition of

sweet. Went you think that the imposition of a condition open evamery managers to self milk retail of outsien periods morning or evening weeds he, in any degree, helphil to rear district in securing a milk exply?—2 am afraid the people I seferred to living the mountainous district weekl not be affected by

that. 25334. I am speaking of the people living does to the orestorry; would the selfing of the suili, retail he belyful to that?—In Belleck parish, where the people keep a supply that they does send to the creamer, they have not to toucht the creamer, but I doesn't fit there was a depot at the creamery a great many special would go there. In other parts of the country people would go there. In other parts or on country where there are auxiliary creameries, the farmer with three or four cove does not went to have his quantity three or four cove does not want to have his quan-lessmend. The farmer wants as hig an account as on with the creamany, and he won't sell it even a higher price than he gets from the creamery to person who requires it retail.

26505. One must look on this from the wider point of view of public health?—That should be kept to the front always, it is in errice to drivint the continuous that have been created by secondaril changes that have been introduced that we want been introduced that we must load for a strately for the critic that have been matter like a strategy and the critic that have been created "Nor and you did not be suffered by the continuous continuous and the continuous continuous and the continuous conti

26538. And some other means would have to be salested in regard to them?—Xee. 26539. And there you would suggest the introduc-tion of the goat that would be a milk-yielder all the year round?—Yes. 26640. Do you think that all public sutborities should be surborised to provide milk in certain locali-

ties where it is not procumble, and if any deficit should arise, he enabled to defray that out of the local trade?—It is a difficult overtion. The textsion might cause a bad feeling in the locality. 28541. I cuite see an objection to it in the beginning, but what I would riggs would be summers, and the expenditure that would being in a certain default could be expenditure that would being in a certain default result in the reduction of the wealtings, which recent he a terrin our public resources. There is a good deal to he said in fewerer of it from that point of view.

ev. Oncess McMun., P.P., D.D.—Sth August, 1913.

\$6542. It has been recognised that public funds may be separated for the uplesop of workhouses and accious and for providing a supply of pure drinking-water, and if these things are warranted, why absold not a fur-ther expenditure be justified to make available a milk supply which minnes and practice have proved to be the hast and most suitable food, especially for young children — It is one of the best remedies that each be preduced to meet the pensors and, heating such a minerable lot of weaklings as we have to the country. 18563. The prosperity of the State count depend 26563. The prosperity

largely on the health of the officens !- Yes.

agree with white you save said, but the difficulty would be, would the local suthority undertake this end where would the milk come from.

votes the files cores seen.

24666. All reforms create difficulties, and unless scoroon is willing to work a vay through the difficulties the erits raining will continue unreference. Someon must undertake to point out a way of reflecting the difficulty?-That is so.

difficulty—Than is 60.

2066. Two or three schemes have been put inthree
on. In the first instance it was suggested, with regard
to the town population, that depend stock the statchlikhed where milk world be resided at a first price.
That was the namely suggested for the town population. In the more resisted parts of the country population. In the more resisted parts of the country population. In the some resisted parts of the country population. In the some resisted parts of the country population. then, and the save remote parts of the country waster the quantity of fermile is of importance, it has been suggested that a contract neight be entered into with fermose to supply within a certain radius of their basses and that the residents should know where the

was promutable?-I think that would be a very practical way to solve the difficulty. 26517. And the goat question would also be appli-Where And use gone was able to take district. No one scheme would deal with every district. The scheme would be sufficiently elastic to deal with the conditions prevailing in such district?—Fee: I think that is a very people way of

meeting the difficulty 26548. Do you think that the necessity which exists would warrant assistance being given through some State or local fund?—I do believe that the necessity is such that some means should be adopted to supply this crying work, particularly in the winter states. 24549. And consequently this would be a reproduc-

28469. And occuses entity this weeks he a reprome-tive expenditure, in their of the fact that is would conure a healthine and more 'unoccur psychidian, which would be better able to resist disease, would be able to follow their pursuits with genetic energy and

industry, and he of greater use to the nation?. Yes. the Toggenhurg breed of goals?-I read scrething about them in the paper.

20551. The Department of Agriculture and the Women's National Health Association have started a Goat Society and it is the wish of the Department Goet Society that it is not been all in made through that the applications for goets should be made through the Women's National Resists Association, so if you apply to the Gone Scotlety in My House you will not the Information you require. These new goats hid the Information you require. These new goats hid

to put outile out.

28500. The Courseau, Are you interested in agri culture, Mr. Gallagher?—Yes, sir; to the extent that a creamery manager should be interested in what pro-vides them with the means of living. 26570. Do you manage a co-operative covariant?

25071. Where is 27-Lough Esgish, in the County 20072. Are there any appliary creameries connected with 19-No.

with 117—No.
18373, How many pallons of selfic do you deal with?
—18,000 at the present time.
28574. Does your creamery work all the year round?

26070. How many days does it work in the winter?-Three days, and two days in February and March. 26076. Ane February and Merch the period of the greatest saurelly !- Yes. 20077. In there any variation in the quantity of milk sepplied in the winter mouth compared with, say,

20064. Is she provided for by the Woman's National 2005. In the provided for by the Women's Newtons Health Association—Sits in Charge you work in your dis-factor, Rass also loose facing you work in your dis-cession. The second of the control of the con-cession of the control of the control of the con-cession of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the control of the con-trol of the control of the control of the control of the con-trol of the control of the control of the control of the con-trol of the control o

as any time. They are not like the old Irish goal, which hids only in the spring, and they are not do

which that they are systems of desirective, that they Mr. O'Bentiel.—They are just an desirective, but they are a little bit tanner. If you put them near a teo they will cast the bank?—I am provided myself against the mireduction of goals, but the reconsity is

no great that I would welcome an improved bread.

2002, Lady Evrause.—You can dether them each
they are asic then?—Yes.

2003. I think you said you had a district nurse?—

somatimes their poverty is so great that is in impos-sible for them to buy it. 2007. Does the Kuesing Committee supply mills?— We have not it formally established. I suithorised the decke, if there was a case that builty needed milk, to

give in 2020s. You have not get a local find?—No. 2020s. Six Surware Woostovas.—The bulk of the people in your parish are small farmes?—You. 2020s. Have yet many laboures?—We have not Sideo. Have you many labourers—we have not samp, the Bellack, we have a politary and there are 150 or 200 heads complayed there. These are agricultural labourers throughout the country. We have a comple of doors labourers' cottages betti in the patch, 50001. But will, I take it, since heritar of the people to ware auchies or small demonstrate.

Sheel. Best still, I take it, allow-keetles of the people in your parish are small increase?—Yax.

Sheel. Thay here a couple of cours, I suppose?—Yax.

Sheel. Thay here a couple of cours, I suppose?—Yax. a couple of cours.

Sheel. The couple of cours.

Sheel. The couple of cours.

Sheel. I suppose their sheel cours.

Sheel. I suppose their sheel. Then he about the cours of in the couples and when the cours. out in the attention and winter?—They have shade for

out in the minime and winter—Tany have about to them in the winter.—Tany have about to them in the winter and the second of the people. The suritary conditions are not to be com-2009). I suppose it is a country that you have nothing to hope for from the beating of grass lende?—The greater part is rough and mountainous and there

20507. The CHARMASS—Are there many ranches?—Not exactly reaches. There is an estate owned by Colonal Leafus around Pottigo. The land around Pottigo is being several colonal pottigo is proved Long. Deep, where it would be a pename for people to Eve. 26509, Dr. Mossuman,—They have fess graving in he mountain in common?—The people have no right

Mr. Duces Galancers examined. five years ago?—At the present day the milk supply for the winter months would be about tops times would it was when I took up the management of the oreassery six years ago.

25578. To what cause do you attribute that?- To the educational work of the committee in getting the people to rapply winter milk. 26579. What methods are being adopted?—Addresses have been delivered at the general mekings of the share-

holders and papers read, and the people told how winter darrying could be carried on. 26500. Has the practice of producing catch crops been introduced?—Nos, to a slight extent.

2003). In it being pushed by the agricultural instructor in the county?-Yes. \$8882. In he keen on the quantion?-Yee, very keen. , 26083. Has be received any co-speculica from the farmers?—Yes; considering how slow Irish farmers are

I had one instance

96584. Do they realise that come that calve in the sighter season are better and heavier milk yielders than sighter season are mover man nearly man pressen man-cows calking in April or May?—Yes; these who have ves it a treat 26585. It was not regarded as a factor in increasing 2000). It was not represent as a second military the samuel yield of milk up to a recent period!—No. 2000). Now those of your farmers who have on parlmented are convinced?—You; the results have

proved Ma-28587. And, of course, that is the most conclusive way that 8tm can be brought under the notice of the farmers in the district?—Yes, it is the most effective

20098. What is the winter price for milk as your groundry?—Lest winter is was \$4d. a gallon on an eretainty .-- Loss wanter in was upd. It peace on an accesse, but we earnot afford that in consequence of the limited supply. The returns for latter would not afford that if the full working expenses were deducted, het a percentage only of the expenses was deducted. 96589. Mr. O'Burns.-How

many mostle do you all the winter months?-January, field, was the average for these months, and March. sures. egd. was the average for steen months, an d. for December. 20599. The Charmans,—Have you any more difficults producing a market in the winter than in exempt season?—For the quantity there is less the extramor season?—For the quantity there is less difficulty. We have no export tends; we have a load

\$6091. Would "local" mean that the Ulster would consume all the butter you make?—Yes, little sent to Dublic Do all your surpliers take back their sensonted

20000. No sale of separated milk takes place at your creamony?-Except by those who have no milk of their

26004 \$6004. About how many would purchase the expecuted milk?-About a secs-bicourers in the

outry. 20095. What price do you charge for the separated milt?-A halfpermy a gallon. 26000. That to a small charge?—There is always

scontiling left over when the suppliers here sales array the percentage allowed to them, and the balance is sale to labourers at a halfpenry a gallon.

26597. Do you cell whole milk!—No. I have never

20058. Would it interfers with the management of the crossnery to easy appreciable extent if the whole rolls was sold \$-1 der h think so 26009. And you don't think it would be a great hard-ship if the managem of treasureries were obliged to sell

milk in the morning and evening?—Is might mean a little extra treaslet in book-keeping. 59000. I was thinking of cash transactions entirely? There would be no trouble. 2002. And it would be no hardship on the greenery?

sowed, and is would be no hardship on the greenery?

-No, provided the price was all right.

2005. In three any substantial town around your creamery?

-No. 28600. In it a village?—No. The nearest fown or village is four miles from it?—Castleblayney or Bally-

Villege is feet some man, as a rule, supply year 20004. What size forms, as a rule, supply year orangey with milk; what number of core would be kept by year supplies?—The avence number would be shown three. The farmars are small.

3600. That would mone, I suppose, from two to mone, and two to ten.

\$600. Few would exceed ten cows?-- Few. 2007. Have you any reason to camplain of the conition in which the milk is sent into your creamery?-

26008. Has it improved in recent years?-Xes. consery was started about when I took up the manage-

ment six years ego, and at that time they did not seen to realise the bed effects of dirty mile. There was a saying provision amongst the formers: "Sure, N's all right; h's going to the creameny." The return of an occasional can of mile to the farmers soon

26600. Have you may enumery in your district that would take milk that you would reject?-No. 20010. We have heard chewhere that milk refused by one creamery will be accepted by snother?—An agreement exists amongst all the managers of crasmeries not to take dirty milk rejected by a

refused at one occurrery it is taken at another?-I have supplier left a cressory discatoried with the price. He same to me, and after a few mouths I had to refine his milk because it was dirty. Then he went back to the first creamity. I work to the manager of the creamity saying I was chiliped to refuse the man's matic supply because it was not clean, and some time prevaguely the understanding had been errived as bead been rejected by exother greamery, and next mornlos this man's milk was refused at the creamery to

not known of a case in Ulater.

which he took it.
2653. That had an effect upon the suppliers — Lee.
2663. The fact got seased about that the milk was 26615. Have you more reason to complain of the famer who has a number?...No, except from its belong kept over; but I find the milk is equally clean. 1605 Do you find the milk equally clean when the cows are in the byres and in the pasture?—Yes, and

When the lists are taken off the ears, and when you stand over it, the odoer is quite clean though the milk is som. It seems seer in quite clean energy the maz is some. It seems is seer in the winter time from being held over, 20517. Does the milk that is held over a little seen produce as sweet botter as milk that would be perfectly resh from the creamery?—You would require to pasteurise the opens after separatize it. 2651R. And after you take in stale rulk and splotes to the ordinary process, you would need to pasteurise the steer afterwards ... Ves

26619. You are obliged to have recourse to that if you do not get the milk fresh?—You, you cannot peatourise the milk then. You have to pastourise the

20020. What is your ordinary separating tempera-20021. You don't get beyond that han Not for

28652. For pasteurination, what temperature do you to?—From 175 to 180 degrees. go to -- bright that is being subjected to that tem-20023. In milk that is being subjected to that tem-perature kept in motion by heaters while in the was or westel in which the post-curiostica taken place?—Yes. leaves the haster at that temperature 20024. Mr. O'Bazza.—Do you test that?—Yes: at the outlet pipe from the heater there is a formometer

always set.

2602. The Causanax.—In it your opinion that the yield of the cows supplying nells to your encanery is better or worse than when you took up the work?— It has improved.

If has improved.

To what cause do you attribute that improvement?—I think the people exercise more cure in the

mental—I think me people energies more war as as-selection of rows, and that they are taking steps to weed out the bad ones, because a greater number of the suppliers come to me for separate twis of such of 2007. Mr. O'Benne,-You have instructions your Commuttee to test milk for individual members?— No, lot I have done it. I have advised the farmers to send the milk of the separate cores. 20028. The Chairman.—That you might edvise him as to the eow that is lowest in butter fat?- Les, and I

try to extendate for them the yield per cow, or institute a comparison between two cows in the matter of yield.

2022. Do you find a marked difference in butter fits between the deep milking our ecopared with the light milking our "——Lee. 20000. It does not inversitly happen that the cou-giving the smallest quantity of mile gives more butter fait—No. I have known it not to be the case. \$655). It is an errors our conclusion to arrive at that

because a cow in a light milker she gives a very good percentage of hatter fat for the openity she tields? 25000. Do you find a difference in the yield of butter fat in different farms?—Yes, often in the case of farms

closely adjoining. or it might be the third.

9993. Would you estribute that to the feeding of the cours, to the cours themselves, or to fin pasture on which they are mised?—I would stuffers it to fin three causes. It might be one, it might be the either,

fr. Durin Ganageren,-- 8th August, 1912.

2023. In more care exceesed by the features is the selection of the cours from we distant sours great significant. They are making press efforts to improve them. 2023. From many of them to their features are more beautiful to the feature of the selection are more beautiful to the feature of them getter thank there are more beautiful to a feature of them getter of them getter of the selection of

district. — So, early whis? I do for form request in size that the state of the sta

tening extrace—they the sole, storat for to impose or man to carry is off-leedings of them reed at a 160d. Here for yet shapes of what is commenty contribed by non-over-appealing mean "commenty obey" 1—31 is carried out to a lobe quite comments of the comment of the comments of the comments of the comments of the comments of the comcernation of the comments of the comments of the charge of the navega into the land—the comtent of the comments of the comments of the posters, at face any comments—the comments of the comments of the comments of the comments of the comtent of the comments of the comments of the comtent of the comments of the comments of the comtent of the comments of the comments of the comtent of the comments of the comments of the comtent of the comments of the comments of the comtent of the comments of the comments of the comtent of the comments of the comments of the comtent of the comments of the comments of the comtent of the comments of the comments of the comtent of the comments of the comments of the comtent of the comments of the comments of the comments of the comtent of the comments of the comments of the comments of the comtent of the comments of the comments of the comments of the comtent of the comments of the comments of the comments of the comtent of the comments of the comments of the comments of the comments of the comtent of the comments of the comments of the comments of the comtent of the comments of the co

and the front decreased to a large activate. It were, a nead storm is in bright 502, "But for its milkes some and storm is in bright 502." Public for in milkes some to this plates where the occurancy shidgs was comprised 2004-1. As formadges Courage what sings have been taken to part this Datiefee and Convelheds Order into 2004-1. They have applicable a verterancy inspection. There and heard of any veterionary inspection.

M606. Here you hand of count protessitions what may be proved the protessition with a major which provides the protessite has been controlled the protessite has been been provided the protessite has been been been considered the problem of the pr

vectorately sampled unto butterer alterations were 25000. Word by the 16th its powersy than a solepan 25000. Word by the 16th its powersy than a solepan should be densed for the genetic of ions for carrying out with destroying the control of the 16th in 16th

malk stem in composition with their hyport—I think the majority of them one this house that they used as a majority of them one this house that they used as a 1600. The milk is not stored in very unsoftleith surprocurlings—I, no, because the often from the milk 1606. If it was brought into createst with mistances tikingly to give in a flower-T-tex, were 1605. What this not on they need to your creases, 1605. What this need to they need to your creases, 1605. What this need to they need to your creases, 1605. What this need to they need to your creases,

milt of clinics.

10000 Zha ndrivikal furner except will afted to follow the beautiful former than the clinical the following the following the following the clinical following the cl

20039. La substitution for wheel—I can searcely sup-50099. For a nondescript bettliff—Tax. 20009. What they only in the south of Ireland a sum holl—Tax of the three is an improved texts on their part to keep as asked of pure bodd and can of good conformation—Taxy don't appears so much of an animal of pure blood. Three are pure bodd and and I find their a good science procedure and I find their a good southern and I find their a good science procedure.

mak inpl in the district under the county selvents, and I find that a good entired prepased in Recomment by any Scority comments now partners, and I find that a good entired prepared in the comment by any Scority comments now partners, and the control of the co

blood and fins old Links one better entired to their district, and I believe they are right. I find that he term of the state of the process are the same premains much "White or the 2005. Are then many premains much "White or the 2005. The state of the state of the state of the 2005. The state of the state of the state of the 2005. The state of the state of the state of the 2005. The state of the state of the state of the 1005. The state of the state of the state of the 1005. The state of the state of the state of the 1005. The state of the state of the state of the 1005. The state of the state of the state of the 1005. The state of the state of the state of the 1005. The state of the state of the state of the state of the 1005. The state of the state of the state of the state of the 1005. The state of the 1005. The state of the state o

2000s. To say on an Administ Agent around over a cover, and they are hed unified as even to see the section. To you think the old I fish ow was a discattler type of strink!—I think the was, to accordately to the strink!—I think the was, to accordately the section of the secti

30000. You mean where the type most generally redeminated—Lies.

Generally and the second of the second proceeding the second process of the second proting type of beath—Yes.

10070. And they would be actices to precore them? it wouldn't—Yes; and belle of that type.

20070. However would be proceed to prove the second in for the Department's sharpy and scheme-sharing in feet the Department's sharpy and scheme-sharing to the second process of the second process of the local type of the second process of the second product the second process of the second proting of the second process of the second protent second process of the second prosecular second process of the second protent second process of the second process of the second prosecular second process of the second process of the second prosecular second process of the second process of the second protent second process of the second process of the second prosecular second process of the second process of the second prosecular second process of the second process of the second prosecular second process of the second process of the second protent second process of the second process of the second prosecular second process of the second process of the second protent second process of the second proc

never in a 10 cm content.

2023. None of the femmes in your neighborahood have been co-operating with him sobered—No. One content of the femmes of the neighborahood have been co-operating with him sobered—No. One control—No. I have no the neighborahood become the control—No. I have not the neighborahood because the new of the new or the neighborahood have not the new of the new or the neighborahood have not the new of the new

Difference of them beed their cwa heliasel-20077. Do any of them beed their cwa heliasel-Tary do. 20078. In selecting heliase the breeding purposes, in the contract of the beautiful and the produced of the contract of the contract of the contract heliase from the beat costs they have Tary van the heliase from the best costs they have Tary van the heliase from the best costs they have Tary van the heliase was the cost they have the cost of the 20079. They regest the production of milk as an heardatory washly—Lee.

dhaor washlyt—not.

persist—Loc.

Media washlyt—sol.

Media washly

people when it was started, and it was only the most entraced features that would travels only many in it. In the course of lines, white the cost of enceitien was spall off, the Souther of the content of the people of all offs, the Souther of the content of the people of allowed than it is not be some eventual goans are the sections to have been a structure, because it would give them a presche lood over them and greater power. 1998 A. You have no demograting country in 1998 A. You have no demograting country in the content of the content o nesters. Do you do a trade in mything class best ernery acces and manure.

15

supply meens that manages.

2007. Mass McNutta.—With segard to the Dulctor
and Convincion Order, do you think that Order should be
made to apply to all the products of milk—butter and everything also—as well as to the people who sell milk, so that if they did not send to the evenancy, but made butter at home, they would still be forced to ecompt with the Order, would it improve matters?—I think it is more necessary that the Order should apply in the

it is game necessary took one other second apply in the case of futter man? at hemin, because there is no cheek on that, and there is some cheek in the evenment, where the milk will be returned if dirty. 35000. Do you think the Order would be advantapecusly made to juckeds every person who sells any product of milit?—It should be made to apply to all ever-keepers. At the present time the dominal is Seelled, and rather than someth to the Order upenhers of factors refuse to sell milk where they have only one or two contoners, whereas if the Order were made or two coldinates, watercom is not outer and generally applicable they would sell the milk.

Seeo. The Chancast.—There would he no point in

wading the provisions of the Order?-No: there would evaling the previouses of the Order's—No; there would be nothing pained.

MOSO, World you extend registration to the point of Because, so that any parent board on a few occasions, gallay of offences against the Order, might have the Herror withincars in the case of a grave offences?—I would have then fased. offence?—I would have them fined.
2000. Would you consider that Hanneling rather than registeration would be more successful in getting a rapply of wholescar milk?—No, I don't think so in the cognity districts, because numbers of them would

not apply for the normors.

2002, Supposing it was made imporative?—In that
case, of course, the license would be a sort of resulty. 19600. It would seeme absolute oniformity that all should conform with the requirements, and that every one lossing a cow might in outergrave an action one lossing a cow might in outergrave to disposed to sell the surplus milk in the lossility, and threely extend the number of those who are willing to supply milk in must quantities?—It would have that effect, because at the present time they refuse to sail milk

not apply for the Bornes.

2000s. Receive it would being them under the Order?
—Yes, in the resul district, where the demand for milk is not great, and the number of purchasers is very few, they retuce to sell it. 26665. Your point is that if the Order was applied to all it would tend to increase the milk supply? - Yes:

 The CREEMAN.—You reside close to Entis-Mr. Brown?—Within seven miles of it. billed, Mr. Brown?—Within seven miles of it. 1870. Are you at all interested in agriculture?— Bigbilly; I am a farmer.

it would make the milk more available.

20710. Are you a dairy former?—I easily on mixed farming; I outliviate a little, and send mile to a

CHRISTON, STORY CONSISTS OF OPERATIVE OF SUPPLICATIVE OF SUPPL

operative Creamory with other co-operative creamoning that one owned by farmers in the district?—The far-

that me owned by famores in the district—The for-ment's co-precise coverage; in range as sees to one of it is deathful while prep best, and it is deathful while prep best. On the con-trolled the controlled the controlled the con-trolled the controlled to the people patronning them?— —fallow meal is the only avoide they ded it as the tability a rood with to, seed it is well of the con-trolled the controlled the controlled the con-puting the controlled the controlled the con-trolled the controlled the controlled the con-puting the controlled the controlled the con-trolled the controlled the controlled the con-puting the controlled the controlled the controlled the con-trolled the controlled the controlled the controlled the con-trolled the controlled the con-trolled the controlled the controlled the controlled the con-trolled the controlled the controlled the con-trolled the controlled the controlled the con-trolled the controlled the co

56716. Are there many goals in your district?-A. gree many of the farmers peefer to keep a goal. I think it is to enchie them to send mee mile to the manaries, but for my part we keep page of them, and if I was asked my dwice I would say not to keep

have no gustuate. Ireland thought it would be good to have some guarantee that the mile supplied to his creating was perfectly pure "-Tes. I don't think that he could all the milk supplied to bim was the milk of healthy 20000. The CRAIMEN.—In these say other aspect of the question, Mr. Gallagher, that you would like to direct the attention of the Commission to?—No. The point I wanted to make, was the general application of

50006. Lody Evenano.-Wirst gonzantce bave that the milk sent to your enemery is healthy?-I

the Dairies and Con-thoda Order to all leceptra of cown-2022. Your view opens up a new aspect of the ques-tion, and I am inclined to spree with you, that if far Order were entended to all new-keepers it would var orner were entended to all env-aceptre it would increase the number of those who are inclined to sell milit b—Xen. There is another point with regard to increasing the supply and that would be if the Depart-ment would award permitants more generally to other

minit whild a warm presents more greatesty or whan pure-first built. 20000. Their dailring schame is to extend presidents to built of first predictor type which would be hered on militing lines only?—I think they only the president. 20000. One of the suggestions made before as was best the precriums offered to the dairy bell should be the least equivalent to the precriums offered to the purebred bull. It was suggested to us that the preshould be reade equal, and flast prices should be offered at local shows for butters, the produce of these milk at local shows for betters, the product of these milk record cows, just as they would be offered for heifers

the prelime of heat book sows, and that the prime might be even greater than those offered for the pure-leved, in order to increase the number of doiny farmers argued in the industry?—Yes. The men who would erous, in orner to increase the innutor of delity ferroces anguged in the industry?—Yes. The men who would be engaged in breeding datay outle as a general role would be less fitted to bear the expense. 26702. And it is a now enterprise, and naturally would used more featuring. Yes, 96703. And it is in the hunds of versile who are less oble to develop it?-Yes. M214. Mr. O'Thoms.-You say in your prio's that all the creameries have eterming blooks?—Tes-26765. Do the farmers avail thomselves of these?-

26706. You don't do it voorself at your creamery? Yes; in the case of all people not doing it themselves; we defent something peoples not doing it themselves; 20707. It onsees the own bring cleaned at lesst once in the days... Yes.

Mr. WILLIAM JAMES BROWN, J.P., examined.

26717. Do many of the cettiers keep gosts for their own supply5—Yee, nearly everyone where I reside. 26716. Here am of the new breeds of goats been instructed—the Toggenburg or the Auglo-Nullan?—

\$6719. The adventage of these goets is that they give milk at all accesses of the year. The ordinary links goat gives milk only at the period when milk is procumble from the core 1—100. 50730. It is no advantage to have these goats in profit at any period of the year?—Yes, to the cottlers and

abources,
20721. It is of these I am thinking. If strong in
your district requires information with regard to these new breed of gotte thry can get it on applying to the Irish Goat Society, Dohlts. They may be tale to got some of these nationals into the district for the propose of crossing with the native goat?—They would be an advantage, I appear.

advantage, I suppose.

20722. From the point of view that they would be able to produce milk in the winter and spring, they would be an advantage?-Yes, but a large amount of our labourers are body, and the parties who employ them supply them with a milch cow the whole year

26728. Then I take it there is very little searchy in your district?—No; not in our neighbourhood.

20724. The custom is that the farmer gives a cow all the year round to the man working for him?—You ther are very well off—as well off as the ordinary small \$5725. The supreity is not by any means equic?-No. Mr. WILLIAM JANES BROWN, J.P.—8th August, 1912. 26726. Are was to the Empidellen Reeal District ?.... shop, in which he had a lot of painting manuful, to-showed me, and I said that that was the cause of his Yes, and I am a member of the Council as well, 26797. We live had evidence as to what has been done in the district with regard to the earrying out of the Dainles and Cowshells Order. Does your in-

of the Delries and Cowsheds Order. Does your in-spector pensent many reports as to the condition in which he finds the byres?—It is not put into exception Nine-tenths of the people have set made the

20718 But ultimately you hope to score that by the presure of the improtor's visits?—Yes, and the

26700. Are you at all apprehensive that the financial

reprofitors measurery to make the electrical altera-tions would hamper those people?—Yes, at the start, but in the cold it would be an adventage. Three-fornits of them have become the owners of their land.

and are aminus to increave their become and offices

as well.

50701. So you would not be reprintentive that the geomet application of the Order would drive any of 20702. It has been represented to the Commission already that it the provisions of the Order were regroundly extended, some framework the world-to the Commission already that it the provisions of the Order were regroundly extended, some framework the world-to represent the provision of the condendation of the cond

of the tende?—I don't think so.
26703. This would not keepen in your district.—No.
26704. In Uniter generally you don't foliat this
vould be the result.—No. The people are very saving,
and third are very few of those that have not a nontender of the people of the people of the importments it would be a boards to them obligately.
26704. Do you go in for visited ediarying to any ex26704. Do you go in for visited ediarying to any ex-

test !- No. 20726. Do any of the fermers in your locality?—No. We see to it that we have more mile in the winter then formerly. The old practice was to have the core then formerly. The old provides was to have the cover day in November. 2007. The cover of the co

creamers would like so come my.

26130. What is the winter prior of milk at the creamers—about it the winter, and in the winter, and in the summer shout 4d, would be the average price 20740. In it your equiples that the cow of to-day is an

good a dairy servent as the new you know twenty years ago! She might not be as good for butter purposes, but she is se good for milk purposes, and the shortbeens are a since class and more fancy, more salcable. and, I tkink, better for butter purposes too. 20741. As a commercial beast you think she is a better sained than the cow that existed twenty-five years ago?—Yes; I remember the old Irab cow.

east also — Yes; I remember has one as a dis-cept of the box or regard the old This bow as a dis-serted by the old based — Yes; you would need; get one and you have been a supported by the strait on the back; you. There was guarantly a white strait on the back; you would be the support of the core were the others were generally large, and the cows were rather thin in deals. 26743. And not very shopely in conformation?-They

26764. Dr. Mccamano. Whith colour were they?— Generally pale yellow. There were a good many of the Decoulite cable that were looked upon as the old Irish breed; they were a deep red with large baras.

26745. The Grammus,—Where have you known this old Irish cow to be kept last?—Thora is only one I know at the present time, and it is comed by a carpenter named Manticonery. 26765. That is the nearest approach to what you would regard as the old Irish corr?—Yes.

20747. Most MoNRIZ.—Is she a good millor?—She appears to be. She is very nearly like the Jersey. The haules here has a Jersey like the old Irish core.

20748. The Communic.—But she probably would be a Jersey eross?-Yes. 26740. Did the carpeter brand this cow, or did he buy her?—I don't know. He used to have a great many cathe that used to take disease and die. When I saked hire where was the flow from his compentry cattle dying. 36750. Load poisoning?—Yes. 20751. And did he siter the course of the stream?

Yes, and since that time, hen years ago, he had no salened. I fancy lead poisoning was the cause. 20732. And, furthermore, the second has proved that your number was correctly—You. your remains we correct—res.

39753. Is there any development of winter dairying in your districty—The idea, I think, is to keep more catle, if possible, for winter dairying, breases it pays somewhat better. The price is light.

somewhat better. The price is figure.

907-84. It say effect being unde to previde suitable feeling for entitle by the growing of entals outpet—we have regardly fitted in courty Fermangal. The land is stiff and not possess the water lies on it, and it shows not pay for linkers. We arm asing slag to improve the

20755. This gives you better feeding for your catalo in wraters—Yes, and they do better. 20735. Have you instituted mry comparison that would stable you to state whether or not the cover that salve in the month of November would vield a larger supply of mile than the cow salving in March or April?—I think they would not yield as much milk or Aprile — mine they were not you a many subset they were head fed.

2007. I slowly assume that they would be properly cared?—They would give a larger flow in this case.

2008. When the cown are bleaching, you think that

then the fresh lite of grass world again increase the flow f raik when the now most needs a stimulas?—Xno. 20739. That is not necessary after the now calves. 20709. That is not necessary after the core current, because she has had a period of rest; she does not not need a strought so much as when she has been there or four months millising, and that helps to inserease the yield of nells ower the entire bavely in the darks of the contract of

would, and the specific of the specific states are considered thing that the own that culves in November will yield mose, milk than the own calving its April or May?—I would not be supplied. I leave the women to look after the milk. 2010. I we have to tarty the core.—Yes, but that is a small park of the matter 20702. Do you go to the false to buy the cowe?—We generally year what we require; and thus we have

stock fearns. 26746. In selecting the helders that you keep for core, are you always careful to select these that are the pro-duce of good milkers?—We have zeroe studied that We consider the colour and shape, and the prospect of selling in the market afterward 20704. Do you grow roots and grain, or when you see feeding your tows in the winter season do you

give them roots and grain?—Seldon; we give them a mash of oakened, or boan, or Indian meal. We grow very little mangolds, or terrips, or other roots boiled. Do you over feed potences to come?-No. 20766. It is a capital food?-- I would expect so, but there are generally a few pigs which generally got the

20107. As a matter of fact, I am told that the best root feeding for milk production would be passeipe?— We grow them, but only for table use. We grow them, who vary no harmony self-ages in your 2000s. Are there many labourers' echtages in your locality?—Almost muo. There is a schima floated, but these has only been one labourer who applied for a but when the commitment of the commitmen cottage within a radius of miles around me. I have salved some of them to do so and they say: "I profer to be caretaking than going in for a labourer's cottage.

They have a goat many more advantages in connection with their caretaking than they would have if they went into a cottage. They have these free cow, and went into a cottege. They have their free their free their free terf, and their home for nothing. 26709. The conditions under which they live and serve here are different from other localities?—Yes. I have always advocated that the labourer ought to be

allowed to buy out his cottage and become owner of it. 26770. Are there many premium holls in your locality?-Yes, a few 20771. Are they of the shorthern breed?—At Florence Court they have three or four breeds—the shorthern

and the black bull, 20773. So that your district is fairly well served?-Yes. A good many of the farmers keep their own bulls, and they like to have a good one.

Mr. William James Brown, s.v.-6th August, 1922.

a cow, or facilities for keeping a cow, he sends his nilk to the crementy matered of giving it to his family? —Some of them do, and some of them if they got the price of wilk would sholk is, but they are loaind down

upon with contempt; that thing is dying out. 20788. How much had is given with a labourer's cottage in your district?—Uniter the scheme that is feeded by the Countil it is a stated acre. That is no

agents. I limbt a good dead of tasts in achilistical sy the authern farmers in selecting the stoch thay isoph-matical and the second state of the second of the 19774, And the second when you come to sell it sub-stituting in farmers of leaving a good contracture. I offered the second when you come to sell it sub-stitution is the second selection of the second contracture. I second the second contracture of the second contracture of 1979. Here are of this features in your leaving agent to see the Depositories is allowed for personaling the keep-lings. The second of them, keep milit recombit—I contract to second contracture of the second contracture of the 1977. Do say of them, keep milit recombit—I contract 2778. I feel not know any tracture keeping them: sufficient to long a new, but my answer is that lebecovers peafer to caretaken for me, or for some other firmer, then go into a labourer's costinge, because they get the run of a now or long, or time, over the whole 98779, And you don't keep them yourself?—I do not.

setts. I think a good deal of taste in exhibited by the

seconding to your vacw, have the use of even from the tensor for when they work?—They have the use of a new. I have a labourer. He keeps a good, and he gets a measure of milk owny night when he is going

the present time?—No, and what is stronge I am thirty-five years now keeping a home and I never went to a fear or market for a servent, and I never had may

need to do so.

255%. You can get outcough to empty your moreds
without doing sol.—Zer. I say to the formore that it.

255%. You can get outcough to empty the solution of the beauting and they say "we cannot go throm." I said them, "you don't next them right. "We marely
too a known example they employed our get morried.

25783. They are living to contembersari and proce in
your place?—I think so.

26786. Do the labourers secretimes below memory for the precision of cores -Carotalors as a role are

or we perceive of cover—Carconcer is a rose are ambitious enough to get on until they own the cows thousarbre. I have seens of them that own their own even, and I am very glad of it.

20086. There is a lendable ambition on their part to own their own cows?—Yes, and the person that is amicous like that is the best for the man that employs

20787. Mr. O'Banes. We have had evidence in several parts of the county that where a lebeurer has

16709. The CHARMSEK.—Xee are a medical proc-26900. Do yes beld any public appointment under the local Beardst—Yes. 50901. Would you be good enough to say for the internation of the Commission what these appointments are?—I am Medical Officer of No. 1 District and Con-

subling Bankary Officer for the breugh of Slige and Medical Officer of Health for the district,

war, winter and summer. 97381. Does that cretom provid suiversally in year bealtiv2-of don't think it prevale universally, but it locality—I don't stink it prevails universally, but it is the general isototion and filledy to become the general curriers, because we have do pay more to the lebourees, and shoy are a fair houghty if they are not purposed up a little bit. On the whole I think they laws more profit than the farmers, \$9893. Here you may difficulty in getting labour at

need to do so.

\$0789. You say in your peicis of evidence that if the labourer were balped to purchase a cow he could keep it on his piece of lead?—If was not reduring to the man who had a Union cottage at all. My evidence is confined almost adoptable to labourers that are quitide

conflict shows attogether to belowers that are excessed luties cottage. It refers to more who have the general color according to the color of the color of the color of 20700. In the case of your labourer, you give him, or all events, the gener of a core. If he choose to lay cot for binaria you would give him the years of 197— Certifanty. He could teel his own call under the servi-ce of the could be set to the contract of the color confliction in he was refusing the core that I would

continues at my west arrange.

supply him wig give him pointeest—The caretaker as anyther form I have, has accordance three calves on, any, one form I have, has accordance three calves one of the calves of the ca

26712. What wages doos he get?—None at all. He is working two parts of his times fir binned?. He looks after my catiffs and ness that they are all right, and that is his principal work, and he has all the other

advantages with three.

20788, Does to own these cows birmelfs—No, but
I say if he did I would have no objection.

20794. You propose that he should own those core

20795. And that he should be helped to do so?... Yes. 20716. Are there any concerning could societies in your district amongst the farmers or labourers?-No.

year america tempoga has intentive or incontrol.—Act.
26197. Too dou't have the nort of very flows
societies work?—No, but I would think that if there
was a co-operative heak in our district, it would
not advantage to small firmers and labourers who wanted

to better their condition. 20209. I should have thought that yours was a distriet that you enthertic mited for a co-corntive

society or hank?-Yes.

The Commission then adjourned until the following day to Sligo.

FORTY-SEVENTH DAY.-FRIDAY, 9TH AUGUST, 1912.

The Commissioners met at the Courthouse, Skigo, at 1 p.m.

Present:--P. J. O'NEILL, Esq. (Chairman); Lady Rymand; Miss Marcarer McNell.

GEO. A. MOOSHEAD, Req., F.R.C.S.I.; and DERMOD O'BRIEN, Req. S. W. STRANGE, Eq., Secretary.

on this point.
Midd. Have you, as Medical Officer of Health, over

Dr. Jone Laren, J.P., examined. 2692. Do 540 happen to know what provisions are made by the SUgo Burd. Council for the enforcement of the provisions of the generations of the provisions of the Subritan Process by theory. 25233. No officer, lay or professional, has been appointed by them for the purpose of minding an interpretation of the datries or the consideré in the district. No that I can serve of. I can not ready other extra No. 1523.

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bean requisitioned by any subprelimate in the service 20530. Have you over known proceedants to be in-stituted for the adulteration of milk in the urban or retail area?—I have put head of any. It may be possible there were sector, but if there were they were of the Burnl District Council to determine whether or not sertion conditions to which his attention was directed were senitory or otherwise?—No, not with refreence to the rolk supply. 2000. In there an ample supply of milk in the urban district of Sligo for the poor?—No. 23831. You have no recollection of over having been guilled upon, as Medical Officer, to certify as to the quality of the milk?—No. 2800. It this is constant searcity, or is it only in existence for a nectain limited period of each year?— It is not sufficient at any period of the year. 2007. There is a searcity throughout the entire quality of the milk?—No.
28632. Or to express any opinion as to whether or
not the milk was pure?—No.
26633. Do you tool yourned helplass with respect to the rate of impure or unelean milit in the present cir-26808. Has it reached such an extent that those who may have meney to buy milk would not be able to prouve it in the lown -- Occasionally that has buyesmetances?—Les. 20844. Absolutely helploses?—You. 26835. And, I take ri, that it is your view that that is a very uniformable state of things to provide?—Most yenes.
2000. And have you, in the course of your profes-sional practice, constitutes ordered a null dist for children or patients for whom it might be suitable tradesirable. understable. 200335. And injurious to the health and well heing of the infrastrict population—You. 25:337. De you happen to know what quantity of milk world be taken into the house of a worbingman saming loss then £1 a weak, who would have a wife call three or four children to provide fort—I don't leave it would be very amail. food and have you been told that it was not precur-28810. You have a knowledge of Stigo for a con-siderable number of years, I take it, Dr. Leind's-Yes. 28921. Are the existing conditions were or better within you recollection?—They are better, I think, in 26888. Are the habors properly nomished in the surly stages of their cointence?—They are, not. That general, 208122. The unith supply is users emple now than it vas, any ten or fifteen years app?—I should say it in 20813. It shows any want of appreciation on the par-ied becomes to the value of mile as a food for chil-simon—No; they fully approxime it. is, I consider, a making of vital importance.

20890. And it is also entirely to the difficulty of proearing a pure and adequate supply of milk?-You. 20840. Have you thought of any scheme which would remedy the existing crit—I access from the ad-mentativative point of view?—Well, since the eventories Siglid. And whetever searchly exists, and whenever children are insufficiently or improperly fed, it is due to the fact that milk is not procurable.—It is not pro-curable in sufficient searchine. the milk is going to them; consequently, the children the milk is gring to them; consequently, the children are not getting the milk as they did in forener dime, which is extended, it is a superior to the contender injurious to the yeung constitution. The contended is supply. It is infinitely more important for them than supply. It is in facility more important for them than it is for the order. If ye go it come cover, I durant the contender of the contender, as I denote that the contender of the contender, as I don't the contender of the contende 2015. Here you ever had reman to complete of the quality of the milk?—Well, I don't think they have often countsined of it. 20\$16. Has it ever appeared to you to be poor in quality?-It has 20817. And not so cleanly as one would wish it to strongly with regard to the supply of milk for the 3648. And under these obcurrences—in the ab-sence of any steps bring taken by the bond Cornell— of course, you have been powerless to provide any rainedly for these people?—Yes. 20019. This secure reither an unfortunate state of strongly with regard to the supply of milk for the children mai my recommandation would be that a children mai my recommandation would be that a large number of goods of a good broad be imported into Fredrich. In tack, I would like to soo a pair of goals attached to draw inhoner's cortage. The goat will contain to inhoperation. The core is run. Goals' will contain to inhoperation. The core is run. Goals' of the children than one better and under for the use of the children than one of the first contained the I should be an armound that of the contained the I should be an armound that of the contained the I should be a present and the contained the contained the I should be a present and the contained the contained the I should be a present and the contained the contained the contained the I should be a present and the contained the contained the contained the I should be a present and the contained 2019. 10th sector return on unincreased sease of things, does it not? Are you of opinion, as a modical roam, that the children in Singo see improperly or in-sufficiently fed with nourishing food?—Tex. of the children than own corn' milk would be, and I think it would be a very good plan if there was a good supply of milk from gads, locouses that corn's tell to each to be occasive. The orders being fairly white in colour and the mirror while, it could not be east to the occasive, on they would have it for the use of their children. Then it she suggestion I 20020. And that is mainly exceed by the meanity of the milk apply?—Yee. 20021. Does your experience—I take it, it would bring you into the rural districts successing Sign?--Tes. Sec. 2. With report to the population three, how are they off for a milk supply are they better or wene of that the people bridge in the server. They are proba-tions are the server better to the con-nection that the server better that cross-nected have been contained as the same supply of all that there was formedly pat-ticularly for the children. See the same supply of the 2000s. It is your contains that the introduction or all the server supply and the for former supply with the former supply and the for former supply. would realto for the supply of the oblidiers 2084). And that would apply to the industrial population largely?—You, and repeatally for the children, because at the children are feel at present we will have s dwindling population and the shildren will not grow 20042. And the adults will not have the same realesting powers—No; the probabilities are that if the child ing power—Act; the precessibles are these at the value in not strong the delit will not be strong. At yourself I can swam of a feet, which I think is really droubled as fee as the shiften are conserved, and then in that they are actually getting the cost of freeling-delites that would be ruinous fee the shiften and devices that would be ruinous fee the shiften and devices that 20024. Do you think the streetly is more south in districts where the creameries are numerous then it in in the ceimary agricultural district where the creameries are not within convenient districts of the form? nervous system. It will not nearth them; on the conteary, it will do those a great deal of harm. content, it will do though a great one or manage.

1988. It is year equinon that the treatment to
which the infant population is being uniqueled at the
present form will, the dispersion of the production, the a frantist
source of endowled window. All princips continue to
mortial durangement when these estitions arrays of
municall—Certainly. noise. Do you happen to know if any of the crea-modes sell sulk rotal to any person who might make anobission to them for a small quantity?—I think application to them for a small quantity? I the they do. People pensing by go in and may get it. 20800. Would that apply to the rural population?— I don't know that, but if you were naming by the ereamony and saked for milk they night supply you 26844. Thut is a deplorable possibility to face?-It 25887. Would that he grateitously or for mency?--I foncy it would be for money. I am not see: 28845. Would it be your colairs that it would be a paintious expenditure of public money to make some provision to having an adequate supply of pure and steam milk available for the normalment of the cirild-26658. You are familiar with some of the large institutions in the town; do you happen to know whether the Weckbouse or the Lonatie Acylem have any diffi-culty in poseuring milk?—I don't think they have any difficulty, but I don't think it is of the best quality. over must available me the nouranment of the en-population?—Yes; it is most intensely important. 26946. And would it, in your opinion, he an opposite expenditure if public funds were devoted to that responding if put-25829. Not so good as you would like to see it as a medical man?-No. 26847. And it would be a reproductive expenditure of public money !- It would.

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Dr. JOHN LAIRO .- OCh August, 2019.

Dy. June Laisn .- 9th Amoust, 1912. 20070. And, I take it, you have no doubt that that is a very unwise course to fallow?—A very unwise

26848. Which would save a considerable outlay in the future with regard to the unkeep of workbrones, brassic saylunes, kempitals and kindred institutions? es, occurrity. 26849. Have you ever suspected the milk supply as being the source of infactious disease?--Yes, occation-

Ily. 26600. And has may action over been taken by the oldic health authority under these dreamstance?— (es; constitutelly, a dairy has been closed if typhoid. car; constitutily, a dairy has been closed if typhost-ever would be traced to it and the milk appels age-

pendel for the true being. reversing body?-Yos.
20002. And it has been rigorously enforced where 20002. And it has been represent function when so medical officer of health reported that infection disease had inches out in the family of certain milk

unerse see outcor out in the itemity of certain milk-supplies; the local outbority would prevent the sale of milk from that house i—Yes. man from this broad - ice.
20833. On whom our finate would the trafe be remad—on the certificate of the Medical Officer o
leasth in charge of the case?—Ten. Medical Officer of Health in charge of the case?—Yes, 26354. Have you ever treed an authorit of typheld to the milk supply?—Not in my district.

26856. But it is not at all an immossible coeffic-20056. Is any expervision exercised, know, by eccemeries with the object of cururing the

the coffs sent into these institutions as produced under hashing and byginnic conditions?—I say not sweet of 20057. Would you not think it desirable?-Very de-

20808. Would you see also think it desirable that the scornors of the Dairies and Correlate Order should apply to all farmers who are capaged in the home 1997. It much butter-making carried on in this

2009. It much beave-maning various version to region now!—There is a felr share.
2009b. But, of course, the measureties have considerably cartailed 112—Very much. 2000). Suppose it were made imprestive on the commercian to sell pure milk in whatever quantity it

mushs be asked for, how far would that go, do mught be asked for, how my want was an activities, to relieve the necessities of the poor. Of ceruse, it is not suggested that it would deal with the deficient was a whole, but here far would it be helpful ?——It would be helpful for a couple of miles around the

26862 But the 26602. But the commercian are not sufficiently suscess in this district that all the accode would be

20055. Some people would probably be six miles from a creampry?—Yes. om a creamory --- zon. 20814. And in their case is would not he helpful?-o. 25905. Have you much teherculosis amongst chil-

from its this region?-There is a good deal of tuber-20340, What form is the more prevalent—base trookie?—In the young children it would be more

26987. Would you countder improper feeding and neurishment potent fectors in producing such all-

neuralness powers memory in pressure, as as marsh; N-Yea.

28486. And I suppose, as far as one can be humanly control of anything, many of the cases coming under your observation would be directly becausible to that onuse?-Yes.

20800. Have you much pulmonary touble?-You have is a good deal of it. 26870. In it on the increase or on the decline?-

tink it is shout the average. 50871. Do the farners who send milk to the overcry retain a sufficient quantity for the nourishment 26672. That sorms a very reptakenable practice?-

20878. And what couses them to pursue that insens cours?—The money they get for the milk.

20074. In all probability they are obliged to provide some other food for their children which may be more expensive in reality than the milk would be?—You that is true. 20275. Less healthful and giving less mourishment!
-Yes. They no living on too now instead of por-sign and milk, which was infinitely better. They see selling their milk and buying tea.

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is a very morne overtoo or course, induced and industry passantistic in regard to 26697. It makes one rather passantistic in regard to the future when these who have un'll actually at their drappeal cell it for the small price which thay get from the course of the course of their own families. the country, and full to nearth their own families is a way that would reak them gow into healthy men and women?-You. and weaters - 200.

20070. Would to not seem ander these circumstances, that there is a want of appreciation and know-

19

ledge as to the value of raffit as a 500d?—Yea.

20279. Have you a larger of the Women's Neticual ceith Association in Sligo?—Yes Health Association in Sign?—Yes.
29890. With what plobamblequic work is it most conterroid; is it looking after the babies, or the said, or
what breach of work is it doing?—Well, I cannot yes!

survey that question 1999). In there a Bakica' Club here?—I don't think 20002. You have not hund of this beauch making

ony arrangement to supply the notices of infants with milk?—Yes; a milk dayor has been opened recently. 20880. Is that a meritorious work, in your opinion?-2884. And one that is likely to produce benedical falls amongst the infant population?—Yes. 26855. I presume you would like to see an extension

that week! Tex.
20080. Would you think the need sufficiently scate

2000c would you make the measurement of the variant a local extinctly is undertaking the establishment of a milk depet for the surpose of providing until for the industrial population?—Lee, I would.

20007. And even if this foll entitle score founcied strain on local renources, in your opinion that would be a wise and justifiable expenditure?—It would. 30899. And one that would be reproductive, and likely to increase the wealth of the country in provid-

a benithy population which would be better ship to discharge their duties in life and produce wealth for to discovery Fen.

2000. Lady Eventum—What is the population of
Singo-Beliveon ten and eleven thousand.

2000. What is the price of milk retail—I don't

26891. What do you pay present?-I don't really know, as I keep a now for supplying my household 21600. I think you said that the Dairies and Com-

leds Order has not been put into force in Sigo yet?les not, as far as I know. 20225, There has been no appointed? Not that I am syste of voterinary officer appending 2.—Not that I am awase of.

\$6004. So you don't know how far the cost are re-sponsible for the tubercules you spoke of 1.—No.

\$6005. You don't know whather the costs are bealthy

or not?-No; I have no knowledge of the keelth of the castle, but I know that they are not kept in a leady condition throughout the country. clausity condition throughout the country. 20056. And do you think, supposing the Order was put into farce, that the Urban Council ought to have passer to go and inspect the darker in the district form which the milk supply is described. 2007. Because we have had that very strongly knowed on us in other places. At the present time

present on us in other places. At the present time the Urban Authorities here not them outside powers of impection?—Not that I know of. 28900. Do you know whether milk nowher or con-denord milk is used?—Condensed milk is used. 28000. As milk powder?—I have not seen that used. 20000. Have you got a Jubice werse—a District marge (in Sileyo—Yea.

the Weenen's National Health Association responsible for her, or is she a charge on the district?

There is a Committee formed. There is a Committee formed.

20002. A Nursing Committee ?—Yes.

20003. Does the Julian to

2000. Does the Jubilee name impress on the mothers the importance of feeding their shildren or milk and not on ten?—She does when she is there.

2000 And do you think the nothers are baginning to realise how important it is 1—Yes. 2003. We heard yesterday in Esnikiller, of a chill that was fed on position from a month old. I think you stated that you were in favour of introducing

20003. The Women's National Health Association see in favour of sending out goals of the propored breeds. At present they owned be imported?...Why? 2007. Because three is a rele against it until the ports are operad?—Yes, I understand. Dr. Jorn Lauro,-Oth Appeal, 1912. 20008. The Department are now trying to introduce the Toggenburg and Angle-Nubiun goats; they hid at

any time of the year, wherean the ordinary Irish gott only hide in the spring or summer. The Toggerbang and the Angle-Nukan goats kid at any time of the year, and if the outinger had two goats, one kidding in May and another in November, in that way he could be pro-

and another in November, in that way he could be priced with rulls, all the year count for the didferent World you advent to the rules of the country of the Nanoleon ever did in his wars.

20011. Its use is illered in France?-Yes, and it cusht to be made so in Irrland. They are uniscess to the obildien.

Miss

trick?-In hoth

draining the contents, and every deep of milk taken through that tube is poison, and really there should be an Act of Parliament making this long-tube bottle

have been called on to see children who were fed on large-tube bottles, and if you take the cork out the resell of it would almost sinter you, not to speak of

invented that bottle lefted more of the human fourly

20

McNena,-Are they much used in

Sugor-Xee, they are very much in me, in the country

20013. Ludy Evinant.—The reason is that it is less touble to the mothers?—Yes, last it is rulinous to the

estitions.

28014. Would you appeare of all the by-positets of
28014. Would you appeare of all the by-positets of
anith bring placed under the same rules and regulations
on new mild Parket.

28015. Dr. Monteso.—It becambededing consume

amongst the mothers?—It is in the country parts.

20077. Of course, the children are healthier that are brought up that way?—Yes, but I think the practice f breat fooding is rather becoming.

20018. It is getting unpopular5—1b is not as possible

as it was.

36916. Do you attribute that to any industrial occu-pations followed by the mothers, ee ourthing of that posters solution of the state of the southern like to have

20020. Is there much bens tuberculosis amongst the children b—You, a fair amount.
2022). Would you attribute that to any particular 2022). Weekl you attribute that to any particular form of feed 5-To milk; to milk from teleproples over

form of bookh—an man; to make from intercours gover. 20022. Are the people ever in such strains that they example get milk for love or money?—In cases of afeli-mon I have beard them say that they cannot get in 20022. World that he in an unders or a retal dis-

26724. That they cannot 20024. This they cannot possibly get milk sithergh they have perhaps a child dring for want of 117—Xes. 20026. And you had prescribed 117—Xes. 20026. And they would not get it for love or money?

-No. occupe they sent a long distance for it.

2003. Have you, as Medical Officer of Health, overexpected on the samitary condition of the rowsheds?— · occasionally. 20038. In the supply of milk frown from the rural or 20020. In the support of many firms from the ra-then district?—Martly from the roral district. 20030. Monthy from the small farmers?—Yes,

26630. Is there may milk at all produced in the reben eren?-Yen. 26031. Are the sanitary conditions in the urben area

2003. Are tre santer; conditions in the orten area anything better than in the rural?—No. 20032. Perhaps worse?—Tvs. more confined. 20033. Are there many inhonores' cottages in your

28600. Are there many labourers' cottages in your divisite?—Tas, a good many. 28635. Do the labourers occupying them keep may cons?—No; they seemed keep a new. 26302. They could not keep a cow on their new of

lend for Yo 280001. Have you a good water copply in the town?-

Salvadid 26007. And the health of the district is pretty good! --Yes.

20038. Mr. O'Britis.—You advocate very strongly the introduction of goats?—Yes. 28000. This is a subject in which I am much intelegrologie?-Yea. my that the gost is immune from

26940. Have you may reason for saying that; to what extent have you gote into the subject?—I have not more into it were much, but I have send what the 20041. Resurse think that the amount of doubt in regard to that. They are protty froe from tohecoslosis, but the question is whether if froe from tobecouloris, but the question is whether if they were kept in confined places they might not de-velon iff-what is quite nountle. were slips a common parties was a survey in the velocity if P—That is quite possible.
26042. And if you have every labource with a complet good, and he has his new of land, part of it would have to be tilled and he would have to level his good.

in a house repeticulis ?-- I would not say on a house processing rest would not may so. 20043. You mean he would telling them along the readside?—No, but goets, of course, are destructive. 20043. They are, said you will find a great deal of opposition unless you say that your goets are going to opposition unless you say that your goods are going to be look in the kouse!—Yes, or on the little plots of

grass they have.
20045, Of course, that is the way it should be done -to tellar them on half the arm and to good their cross on the other half, but I think you will find it rather difficult, because the inhourer's goat is hibbly to so into a neighbour's tand !- A strun round the week

with a class atteched to a stake in the ground would 28946. I think it would be unpopular. I think you would find that most of the farmers would be against the introduction of goats?—I decome they would, but think it would be unpopular.

think we might to think of the children instead of 20047. I quite agree, and I time gross we surely for the laws get some of these new breeds sayrelf for the laws get some of these new breeds agreed I timb purpose of briping the introduction of them. I this you said too new that the mothers were safter in

offered to give up breast-feeding?--Yes; they are not dooding to match as in former stars, 2008, is that became they no not sufficiently authorized themselves I may be so eatled their children of the hope of the continue that the hope of the continue after not the hope of the Constitutes after marchs and

sometimes twelve months.

20050, Bit there are fower of them now that will undertaks it?-Yes. 20051, Miss McNerss.-Dou't you think the change of diet has affected the nursing mother; don't you

of dist has america me numing mother; core a year think the use of tea would have acmoding to any to it?—Nes, that would have an injuries influence. 26032. Mr. O'Brins.—Do the envisioning shout here MODE, Mr. O'BRIDE-LIGHT STREETHER STREETHER SETTLE SETTLE SETTLE STREETHER S the fat from some other source

\$8054. Take the cedinary diet of a child or ; person of aftern or stateen years; if they had pleny person of affirm or maximum years; if they man parmy of separated malk smil, say on comes of better, it would make an excellent ment?—Mont excellent. 2005. Or any other fat herides the bulter?-Yes. 20050. I gether from what you say that the use of sekmeel porridge has gone out very much?-Tox. 20047. Don't you think that if you wree to give a sufficient supply of nells to the people they would have comblemable difficulty in getting the allilleon to drink it; that their tasts has been visited by drinking tee

the title their seems and near, vicinited by arrianing too with a tremendous lot of segar in it, and consequently you would find it way difficult to get them, to dried the milk!—If the few was withheld they would be very glad to get the mill 20008. The ten is always there for the elders?-Yes. \$60.00. The skildren look on it so a sign of being

rown-up to get ben as their mothers do. I think the parents in very many cases where they can give nrift don't give it, because they find that the children don't wont it?—You.

26060. Don't you think that by selling milk and buying other food for their children, parents fall to recognize the value of milk for their children?—Yes; 20061. Miss O'NEXZ. -- Are there many mothers in Sligo whose occupation taken them away from their homes?-Not many.

20002. There are no industries employing women?-It is the younger girls that go. .

16963. Not the married women?-No. 20034. So that does not cuter into the health of the informa?-No.

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Dr. JOHN LASED .- 9th August, 1912.

20055. You receive creameries as affecting the milk must -the fact that it was all sent to the ercamery?-Man all 223d. I mean an excessive assernt of it?-Ten 2007. Do you refer to the children in the farmers' turnor's honor; do you more that other children than

the former's own children have been affected?-Year become if the milk is good to the covamery it carnot supplied to the neighbours about, gases. Wern they in the inshit of doing that?—Tes, gases. Do you blink that there was not a searchly before the creamence were established !- Milk might have been source, but it cromperies were catablished. is more sparce since the 99970, Because the Commission has had evidence of 20010, pecusio sie commission sai naj visione or natrity is districts where there rice to scenarior as will as is districts where extensions had been estab-

Mr. Microson Garasonen examined.

20077. The Commun.—Are you interested in agri-culture, Mr. Gullagher?—Yes. I am a farmer. 20078. Living in the district of Collosory?—Yes. In that a dairying district?—It is half dulryand half farming With what object is the milk mixed there?-

is sont to the eventory alread exclusively. What clear of overspection are there in the district?-Co-repressive mgr:--t copressive.

20002. You are connected with the creamery management yourself?--I am a member of the Committee of

MING. In theye a scarrity of milk in the totality do you think h-Not for domestic purposes.

20084. There is a sufficient quantity available at all perioda?-Yes. As a matter of fact some people who crupty the village with milk send what they have over and above to our creamery.

20085. World that plentiful supply be available in
the sural districts as well as in the villages?—Yes.

20000. Is it the system of the farmers in that locality to give shore working on their land a supply of milk for their families?—Yes. I would say that labourers are very scarce to the locality. 26667. There are not many labourers, pass and simple?-No. surpress to the season in the locality, where do ther get their supplyt—They hay the milk been local versions.

2069. Have they any difficulty in presuring 119—

Not the least, 20090. At any period of the year?-Not that I am 20091. And no complaint has reached you as to their installing to procure milk?—No.

26002. Your Insuriedor would extend on forwards Bellita 2-Xea.

Beltinas—Xes.

2008. The man supply is nonlikely for that whele 2008. The supply is goodward in the written self the nilk to the best people who are short of H. and York. The supply is the recognitive self all all York. The supply is the properties self all all Y-Mo. 20050s. Woods may do the creatments, if a codinger villen case years applied for a quant of mills, may see within case years only in two cases we were self. I may say it was only in two cases we were supplied as convenient of the properties of the

institution.
2000s. The milk was not required to supply the needs of local residents?—No; we were never soulied to by 20197. And none of the local overmeries do supply 2097. And none or the sous constraint or mayor, milk in that way?—I don't know anything about the variance of any other treatment. The Collegeor Creamery does not sell uslik to that way.

20000. The Commission is not introsted in the people who kuy that are able to look after their 20000. Is there may sale for separated milk?-Tes-

27000. From the occumeries?-Xes. STOOL And it is sold?-Yes. 27002. For what purpose?--Haking bread, I would expect, principally.

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2027). Are there many inhecests' cottages in the district?-A good reagy. district?—A good ready.

20072. As these usary laborates who have bousts either than Union softspan—Tee, but they are dimensional because a large reproduct of laborater attages have been provided,

20275. So that the laborates who would not have

graving for grate will be getting fewer and fewer cach 99974. The Chumux.-Notwithstanding the vitiated teste that prevails at the moment, is it your opinion if more milk was available, a larger quantity world he mad 2-7 es would be used?—Lee.
26975. And even that genindens oretom more pre-valing of pring ten to civilize would be damented it make was employle as food—Lee.
26076. And that, in your options, would endone to the health and with letting of the titing generation? the hearth end. Yes; that is so.

27003. In it given to shiftlern as a drink?—Not that I 27504. Have you may experience of separated milk versadit—No; except for call feeding. 27500. Have you ever tested ids—Nos. 27000. Have you ever tested ids—Nos. 27000. To be palabally to defin?—I would not say so. 27007. Tou would have no appetite for it at all

STOOK IN to fact that separated milk rapidly goes bed if not used immediately 5—I would not say so.

If you want to be supported to be supported by so. 27010. Even in the summer time?-Yes, 27011. Have you over tasted it after the lapse of that oriod?—No. I never tasted it six bases after it came 27012. Does guy change take place after twelve

27018. Is it fed to other in that condition?—Yes, 27016. In there any other feed must with it?—Something is always mixed with it as a rule?—Flax seed and Indian meet.
27018. Eatled that need?—Yas.
27017. Is it good food for calves?—I don't believe it STOLY. In the good load for and weet—I don't believe its would be, alone.

27018. But you'd bod for and weet—I don't believe its would be, alone.

27018. But with the addition of the consentrated food you albelo to, is to thrue a good bod?—Is in.

37010. In it possible to make expended with equal to new suffic by the anyphy of fats in another form?—I don't believe so.

27000. But something can be done to semely the absence of fat by giving concentrated fools?—Ees: it ong be considerably improved. can be considerably inneroved.

270GL Do you think that the rearing of only in
the way you have indicated has any effect on the health of the stock?-I think not 27022. Are you in the liabit of feeding calves in that 7003. And keep feeding them to materity?-Yes, all

27034. You have had expenience of beeping them when they were fed on whole rolls previous to the in-troduction of the creamers?—Fed on butternills. 27026. When you speak of feeding on butternills, that would meen when they were should a month old?— 100M. Is it your opinion that you can grow as leadily and vigorous stock by feeding them on separated milk, with the other foods you have spoken of solded, as if you were feeding them in the did way?

Yes, I can. 27027. That is your bone fife opinion?—Yes; that is 27028. You thick that the stock are as vigurous ar as healthy brought up in that way as if they were fed and brought up under the old system !- Fee.

and brought up under the eld system 1—zes. 27028. With regard to the milk yield of the cow, do you keep records 1—They were partly kept. We started a now-desting sametakine last year, and owing to the finess of the secretary, records were not construed up to the cal. The coveres tailed to need in the samples and have them weighted events to the three so the secretary. This war we not discip it regarded, and am securiary of the com-testing association.

Mr. MICHAEL GALLAGERS.-- Och Jupart, 1913.

27000. What world you estimate the average picks of the dairy one to be in your region?—Well, I think at persons they per cost, of the core would qualify: they will give at least 5,000 Rs. during the religing rios. 27081. That would be 500 gallons?—Yes, but taking the entire cover of the district I think that would be

shows the average of the whole heed.
27002. What would be the average of the whole brid? I the creamery we are not in a position to judge that, because a certain amount of milk would be kept at home, but as fer as the con-testing association goes I think that nine-tenths of the cove would yield 600 gallons of milk.

17033. Have these cover whose milk you have weighed been selected out of the bents in ution they are? the entire herd roust be tested, under the rules of the

\$7000, You are not allowed to test selected con-27086. Do you think that scheme is likely to point out to the farmers that, up to the present, they have falled to realise the cores witch new the worst duite narrante?--Yes. 27056. And is it your opinion that a great really,

oven of the natelligent farmers, have a group concep-tion of the milk yield of their cone generally?—It seems so, but I thenk myself, the introduction of these premium bulls have convened a considerable influence over the mile yield 27037. A beneficial or as frontiers influence?—Nost inferious. I think the keeders of premium bulls have paid greater attention to the 9th founding properties than to the milk yielding qualities of the surreal. 27088. What prendom boils are used in this county?

-martiners. 27009. Are there many Alaceleen Anges bred?—No. 27040. They are not a good anticker strain!—They \$7041. Is the Aberleon As iced?—Not that I know of. Is the Aberleon Augus over used in the dairy STORN What is the inducement to use the Mendeen Argus creas—be it because the catron sell better?—Xes, and they any the quality of the heat is better, and is leaked for by butchess. They weigh better than the

27048. What is the average price of milk at your createry in the summer months?—I connot tell you right of. It would be about 8,704, a guillen, or thereshorts. The manager, who is present, will tell you 37044. What quantity of milk do you handle in the winter somes at the commercy—It would be very 27045. The crossery works about three days in the week at the winter time?—Yes,
2006. Is the winter supply increasing or diminish-Most. Is the winter apply increasing or disals ing?—Well, I think it is increasing very slightly. 27047. Does the idea prevail amongst the farmers in

your district that winter delaying does not pay?--Unscottedly.
27048. What would be the waster price of milk at the creamery?-Scorething over \$6, a pallon. 27049. Not more than that?--- M. or M. I would 27000. I am afraid it would be very hard to make winter dairying pay at that price?—Yes, 27051, We have been told in other places that the 27000. What is it perwats your creenary being able to give a better price than 446, or 64, a gallon in the winter?—Our working expenses for the small quantity of milk delivered. I onto

of malik delivered, I dure.

57035. We have hard in another place that the
custom is only to charge the same properties of expensagainst the mulk handled in the winter scene as the
average cost for the whole year. Do you dollar that practice?-No.
27034. You do charge the whole of the expenses grainst the milk dealt with? -I think so: the manager

against the mare scent write?—I think so: the manager will tell yen about that.

27065. Do you think the futreduction of the non-testing association is likely to be beheful to the futness by increasing the poild of milk—I think it will, And you think is in precessary that some de monstration should be carried out for the purpose of convincing the farmers that there are certain cover in their own heeds that it is uneconomic to keep?-You. They admit that themselves. I have met farmers wi a representative of the Department, and they admitted 27097. Doe't you think that up to the present they do not realise that fact? ... They comnot understand why they are getting had prices, and it probably arises focus fact that there are some had core in their book 27038. When you speak of had proces, you mean that the milk supplied to the commery yields a low financial average per dow?-No, but I make that compared with some of their neighborns they don't got as good a price. 27000. That woold be consequent on the quality of

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I understand that it is on the butter fat you 27061. And is it a fact that head that appears to be equal, and perhaps in some instances to be better, for milk production is not so good for probacing milk risk in better fat an other land?—Yes. 2002. Is that a recognized thing sensing your recognized—I think the difference roots solely with some caus in the beni.

STORE Cores welling a poor quality of milk?—Yes, 2708s. And you think it is deviable not only to ten the core as to the quantity, but as to the quality of the unit as well?-I'es. the milk as weX-Tes.

2005. A few cone yielding poor milk will necessarily
depreciate the quantity of inth-Yes.

2006. In it years belief that if a cow winks a poor quality of milk she will in all probability give a larger weight and quantity than a core that yields rich mile? - You; that is no experience. I have scope organ of that character myself.

at customer mysen. 27067. It was only yesterday that I saled the same section of another witness expand in the trade, and he seed that the cow that has a light milk yield is not the own that would reconstruct yield rich milit?-As a matter of fact the generally dass.

27008. That is your expenses at all receive.—You, and as for an I know the now-testing macriations go show the same 25000. In there much mortality amongst the calves in our region?-Nothing extenses in 1900. No entirement amount to liem 5-No. principal cause of any spiderate would be blacking.
2003. You don't here my of them from whote soour?

2007), 100 000 1 flow may of MEEs man where be--Not that I am aware of. 2007). What personings of the salves born in the district would be record to maturity?—A lot would be 2007a. How many of them would survive up to six months old?—More than 90 per cont. 2707-1. That is very much more forbuste than they are is other countries not a thomsand unless from where you are?—I have been! Cork is very but. 2073. And Limerch. One men told me he had only succeeded in reasing more calves from facts five cone? -We have no such experience in county Sligo as that The principal muse of mortality in sulves in the county Sligo up to eight months world he blackley.

20076, Mr. D'Bries.—De you find that is more prevalent enough core that are going about anomast this rough pasture?—No: I have seen it to occur in all 27077.

soot or partner. 2007. The Chanceux,—As a rule blacking to not a wase that affects wasted or hadly fed calves. It is the best animals that get affected? I have seen had dwes are of it.
27078. As a rule, so far as my experience goes, it is have the thriving well-monthind strimals that are affected.—Nor arrays. 2009. In tay own occupy I may tell you what pro-valls: it is always the thriving well-marked animal that in more susceptible to it?—It was approved up to ago that high feeding was the one mas ago that high feeding was the cruss of it.
2000. Have you ever seen a calf cased of blackleg?
Nover; it is inpurable.
2000. I have heard of sees but he be. Never; to any heard of ourse, as them? I have used a perventative. 2002. Inoculation? It is no have heard of ourse, but have never seen 27082. Inscalation?—It is an American remedy, incr I have used in I have not had a single death from blacking. I have been using it for over two years.
25068. Have you used Seaton's remedy?—No. I not think it is successful. I rely on the blanklegoids. 20084. Here you suy tuberculous aximals cooping up from time to time?—Very few; there might

Mr. MICHAEL GAZZAGERS.--- Oth August, 1922.

27085. What becomes of them ultimately?-They are sold.
50095. For what purpose?—They are shipped to Hangow. 27087. To make Gremen santages in Glasgow?...I

ance so. 27688, At all events, you are not interested in the surpose to which they are devoted, provided you get surest coin of the realm for them?—I don't sell many 27689. I mess the farmers of the district?-Yes. I know they are sent to Gisegow-Belfast and Gisegow.

27000. Ar pere?—No. And their subsequent history interests you no 27091. In the presence of these animals in the heed a substantial loss to the farmer

27002. Do they open sufficiently often to make them a source of autious loss to the farmer?—No.

\$7093. What percentage, do you shirt, would now
leave a district in the year of animals of that type soil
sharacter; how many out of a houdred?—It would be

wery small.
\$7094. Ten?—I think five would be the meadmum.
\$7096. From three to five per cent.?—Yes. I ma my that in this distinct cases are very rare, but I believe there may be some in other districts. land healthier and sounder than the districts where it is more prevalent?—Yes, and we have

otter breed of cakile. a primer reson or cavel.

25007. Are certain lands regarded as healthier than leads in an adjoining district.—I would only say that as regards the flesh forming qualities of the lead 27008. With regard to the multi-ties of the lead of the second primer in the cown, is it improving or is it distinguoving?—I think it would not be improving. I think the amount of milk would

not be improving.

17000. In it at a standabilit—Compared with eight or ten years ago. I think it would be degreesing.

27100. To what cause do you attribute that?—To the introduction of the promium helbs.

27:01. What bull would you marrest in substitution

27101. What ball world you magnet in substitution of the shortform to impose the milk yielding quality of the stock?—The Department see starting a hered of dairy bells, and I believe that that would be a belg. 27102. Have any of the cow-bespen in your locality co-spented in that scheme; have they offered their even for imposition?—Zee, but we only started here were for imposition?—Zee, but we only started have I would expect short chirt or ten would be accepted this season only. 'Next year I expect there

he short fifty. 27:00. You think it is a scheme that is likely to become popular?—I think so.

pecture populary—a turns at.

27104. Are you keepelul that it will sesuit in the pan-dection of a bell that will beget stock that will be better dairy stock than from the ordinary shorthers?— 27105. How many gremium bulls sen there in the 27105. How many premium bulls see there in the county1—About thirty, roughly-speaking. 27106. I issue they would be only a small proportion of the bulls used in the county2—Three would not be

Elty per cent. 27107. Thirty per cent., perhaps?—About that. 27108. What class of bulls are used buildes the per-minen bulls?—The eross with the codinary come one premium bulls perhaps, and they are using the Polled

27100. Would you not think that is detrimental to the milk supply?—B is detrimental to the breeding qualities, I think. They don't breed so well. 27110. What world be the colour of the cross with the Poiled Angua and the shorthorn?-Black, with

27111. Would you think a brider of that kind would turn out a good dairy breed?-It might be a good militor, but I expect it would be a had matron. 27122. It would produce had stock?-Yes; the cross

27113. Would you favour the shortkern bull and the selected cow?-Yes; a dairy bulk, of nourse. 27114. Would you desire to have a shorthorn bull coming in from a breed with a milk record?-Yes; but, of crurse, if my object was to produce store cattle I would favour the shortharm or the Polled Angus hull. would not introduce the Police Angus for milk. 27115. In the interests of the dairy, the Polled Augustia underbiedly detrumental?—Yes; it is not useful for

dairy purposes.

27116. How many of the permium bolls that are in se in the county would be Polisi Angus?---Certainly 0 per cent. 27117. We . Would it approach 50 per cent.?-Hardly; it might be 30 per cent.
27118. I see talking now of the premium bulla?—

27118. I see shallon zero et een y. Yes, I underviewe aug Galloways in the mountain 27119. Are there aug Galloways in the mountain Asserted—Not promisses. Mayor—Nee, I know. 27121. Very much to the deriverse of sket walks supply, as they plud unt—Yes, they must use the short, because they have a loss of mountain land, owner. I. Children's the Sing Besed Districtly— 27125. No effort has been made by the Rural District

Council to put into force the provisions of the Duries and Counleds Order?—Xos; they were farced to adopt it by the Local Government board.
27134. And hea it been put into force recently?-1cs. They have a referringly impactic appended, 37125. And is he subjuly at work?—Yes. 57126. Has be been visiting your leading?—Yas. 57127. Has he been making reports as to the condition in which has finds the own bytes?—His has good.

trp 27128. Have any proceedings been instituted for the erpose of saturang the provisions of the Order?-I 27130. How long is it since the appointment been made?—I think it would be twelve morths. 27130. Has the veterinary inspector over dir is it since the appointment has 27130. Has the veterinary inspector over directed attention to say cows that he suspected of having talen-values 1—1 am not awars. Mr. Coulsa, the Crest of the Rural Council, he here, and he may be able to tell

97181. You have told us already that you do not bollows there is any necessity for the creameries to milk in your own district?—Yes, 7102. If the need should exist in other districts not as happily circumstanced as years with regard to the milk apply, would you think, from your knowledge of opening management, that it would be an engeaconshie thing to insist on creameries selling milk for domestic purposes if required?—I think they could not

98. 27138. Why?—Boospan they have to return 90 per at of the separated milk to the owners 27156. That is movely a matter of arrangement. This Commission is dealing with a larger move than this commission is obtained with a larger lattle than the relations between the ereamory accomilities and their amplifier. They are dealing with the public boolth, and if the needs of the public health demand that the milk should be said at grammerou, would it wherfers to any considerable extent with the management of

27135. Why?-Beeause the suppliers would come ! send their milk if they did not get back the separated 27136. You told us that 80 per cent, of the separated milk has to be returned?—80 per cent, of the new milk. 27187. I would not apprehend that the demand would deal with a very large proportions of the gross receipts, but it a district is deprived of its milk because of the notion of the creamery, and if the children are deprived of a necessary and essential food, would you, in these circumstances, think that the inconvenience to the oreamery should stand in the way of the protestion of

STIPS. And if the determinances demanded that such a rule should be enforced, you don't kinds that it would interfers to any considerable extent with the consensor recognized?—No. I know, as far as our distinct on conserved, that if it courred it is only a small quantity outerment, and it is control to only a small quantity that would be required—positically meas. 27:50. I am accepting that as correct, but under-tunitely there are other distracts that are less advan-tageously placed from this point of view than yours?—

— 10s. 27160. Do you know is much care exercised by the cow-keepers in keeping their cows in a hashiy and condition, and are they exertal in handling the sellch—10s. The creamery will not ascept milk rulki*—Tex. The creamery will not assopt mode except it in each m a proper condition.

2214.1 We have been told in other pieces that if mile is ratured at our extensive; I have only to be inlene to a meghbouring creamery and it is assepted there. Has anything like what happened here.—Has anything like what happened here—Web.

27143. Have you over known milk to be returned to a former by the creamery managet*—Tex.

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Mr. Morrow Gattaneen,-Oth August, 1915.

27148. Is that fairly universal as a custom amongst the creameries other than the Colloner creamery?-27144. We have best sold to other places that if milk is rejected in our creamery it has only to be taken. to a neighbouring erramery and accepted there?-That

would be unremonable.

\$7144. This is a very grave source of danger?—Lee;
\$7144. This is a very grave source of danger?—Lee;
\$7146. In some districts you have rivalry between
the co-operative and peopletary creaturing?—We have no progressor occuments to Sileo. Mr. Loredule had

27147. How many cows would the orunney maner have in your distance?—About four. 27148. What distance is the milk sout from to your 27147. How many cown would the ordinary farmer ercement -Five or six make into the central station. On an average is would be about fire or six miles to the auxiliaries, as well as to the central occusery.

27149. How many auxiliance have you got?-Sight, I think, 27150, And they are constanted over all this region?— A over the county. 271M. On the spoth sair?—Yes: and we have also one in the north and one in the north-east. 2/162. Is graph care exercised by the former to the purchase of come as regards those that are likely to be good militers?—Yes, in my district. 27353. Where do they hay them?—In the local

97154. Outside their own county?-No, principally the county.

Still In Manochemitton't—No. In Bellymote,
Bonney, and Tubbersurry.

Collomey, and Tubbersurry.
20106. In selecting beliers, do the farmers pay any need to the milk producing qualities of the dam?-I field by our time processing quantities of the con-traction of the contraction of the con-testing association is likely to develop that knowledge sancings the core loop-rel-Lies.

attachings the core supports—1cc.
27199. And to improve the outsian they have been following up to the prescrib—Yes.
27100. Have you found the quality or the quantity of milk largely affected by the feeding given to the

27161. Can you increase the quantity?—Tes. 27162. Can you improve the quality?—I expect you receld corld.
27168. That is a very debatable quantion. I must any that personally I share your own view, shough some experts hose the contemp view?—I expect you would

improve the quality.

27164. Lady Evzaxan.—I understand the Daines and
Cowsheds Order in not enforced in this district?—It is

Covations tomes in the converse in an in Sign Rural District.

21:25. In Colloscop in that district?—Yes.

27:26. Though it is cubreed, are all the dallies supplying your column; registered —I think the majority of the darman have registered with the Click of the Council.
20167. Even though they have registered, ereamery has no guessaice that the corn supplying it with milk are perfectly health? No.

27155. Creamery managers have told us all over Ireland that that is a great blot?—I think that quite recountly in Tubbercourse district we have lost a lot of suppliers owing to the nation of the impactor there suppliers owing so one number of the inspector more threatening processions, but as far as I know it has not affected Sligo Rural District up to the present. \$7109. Do you pasteurise your rolls when it occurs
to your creamers 5... No.

27110. Do the people in your neighbourhood value the use of milk; do the mostern realize the value of milk as a food?—I think they do. 27171. Do the people use attrabact in your district?

-The majority do.
27172. They are fed on tea?-They are not fed on is exclusively.

27173. Or potatoes, as we have wridence in Ecmis-killen?—We use potatoes.

know one once in this connection last year, and we cented to take the supplier's milk until we were in. dented to take one supplier's milk until we were in-formed by the medical officer of health that it was

2017. What head are may—see any of the largest as, I capted as, I capt iden that is prevente disease?—Yes,

"His. Do cover suffer much from shortlon in your
district?—Not in my district, but I know that in other

27174. Tou don't feed beloses on them?-No. but young children may be fed on a mixture of polatoes and butter.

27176. Do they have bone balting?-Exchartesly in

Are these many goals legt in your neighborn 20.10. Are unto many boul?—Yes, by several farmers. 2017. What breed are they—the old Irish breed?—

the country.

parts of ecousty Sign they do.

27586. But hot in your districts—So. In this area
I indices it is written provident.
I indices it is written provident.
I indices it is written provident.
I indices it is written provident provident in the object of the colleges in your districts—Text. a great number of TRIBL They have an even of belle althorist do three colleges. Have any of these corepants const—No. I can't believe they have. The enception would be if

er have. 37187. Have they all goste?—Yes. 27188. Every one of thron?—Yes. 27180. Do you use tabercullin as a test for your cores?

No. 27190. It is not used at all in your district?—No. 27191. So far as you know are the cow-sheds kept in a fair way?—Yes. 27102. Mr. O'Brane.—Do you think that those is as improvement in the condition in which cows are legst because of the introduction of creemense, and the fact that creaments will not take dirty milk? Do you thick that that has had any effect in improving tow-sheets and the general banding of the milit-if-four's think so. The amount of dirty milk sont to the

conserves that me general utilizing the cent to the deal' think in. The amount of dirty suffices to the creamity would not be so serious as to affect it. The zentsler of same would be so very small that the suffi-would have to be returned, and, therefore, it would hardly have say effect in changing the cow-sheds.
27100, I suppose at your commery your manager never goes to impost the cow-sheds of any farmer wise never goes to mapped the cove-abeds of any termer who habitually sends, or who senses askined to send in, dirty mult?—I don't firm't suprimmer, so far as I know, in in the behit of sending in dirty milk. The cases needs he exceptionally rare. We have had very few

sees in our creamery where milk had to be returned heaves it was darty. We had cases of milk being returned because it was som retermine Declarar is was soon.

27184. Have you seen any cors at all us your neigh-bourhood openly allected with techerochosts—No.

27184. You have borne seen them?—No.

27186. The most you have seen in an occasional phor?—That is all.

27107. Did you never one a cow with a teherenloss

odder)-No. I never saw that, 27100. You think, on the tehnic the milk supply as not sent from diseased animals V.-No. 27199. You don't know of any such case?-No, I

don't.

25300. If there had been any case where a creamery had been supported of disseminating some intections distance, has it ever had to be shut up because fixed many favors in the distorted—Merer. When our had medical officer of health finds a case of fever he notifies as and we ceese to take milk from the supplier. I one once in this connection last

Dr. E. C. MatDown, exercised.

27201. The CRITICIAN.—You are a medical practi-tioner, resident in this town, Dr. MacDowells—I am surgess of the Sigo County Hospital, and Visiting Physician to the Lountle Argion. 27909. And you have general practice throughout the town and district surrounding?—Yes; a countervals 20203. In your opinion is there as adequate milk

Dr. E. C. MacDowst. -- 9th August, 1911

27219. With regard to your hospital experience, you let in stilling 1—Yes.
27220. Do you commune find they are unfamiliar

F7220. Do you continues find tony are unknown with the safe of milk—They know when it is had F7231. Do you find that they don't near far the F7232. Do you find that they don't near far this F7232. We were sold it another place that one of the difficulties in the measurement of an hopping when the third that the measurement of an hopping was not the third that the measurement of the Draw that the third that they related to take the way that the third that they would not take it. They concerns, but the different would not take it. They

27328. Do you think it merentry to subject all milk

2733.4. In it, your opinion that the pasterination of milk furgers is body repression—I don't which is does, on the whole, one it is like the tested—I don't which is does, on the whole one it allow the tested—I are. It have frequently known children to retroit is.

17328. Bost if you excel by quite sufficied that milk produced the pastering of the pasterination of the pasterination. The pasterination of t

to pasterorization?—I think in institutions it should be pasterorized, certainly.

27234. In it year constant that the mateurization of

chiliren. I am sure of that.

37237. And you think it would be the salest method
surder which children could be brought up?—I think
if we really want to supports tobercochois we can never
do be unless milk is belief; unless the system of credi-

coting the disease is so complete, we will have so belt the milk.

27199. Do you think the insufficient foreing of oldther in early yous profused them to disease in other life. The party profused them to disease in other life. The party of the party

prints infection by watercase mine in way we see to subjected to tuberculosis later on 27220. In tuberculosis fairly powdent in your distract.—Est. 27230. In all its forms?—Xes.
27231. Do you find much of it amongst children!—

Yes, not no much pulmonery as junt dimess, and abtion of the state of the state of the state of the 2000. The state of the state of the state of the 2000. The state of the ty as impure milk maps, and the state of the 2000. The state of the state of the state of the institutions with which you are concetted to wise a 400 to the state of the state of the state of the 400 to the state of the state of the state of the

23

and he showed that extras principalls figures. I work princed may remainable indirectable consequence of what I used he ham short has being the to get mile what I used he ham short has being the to get mile when I was a supplementable of the short of the same year. In June 20, 700 pillions of mills much to the same year, in June and John, three were even 40, 200 pillion such. That it wook strate has a currentineary graphs such that the weak strate has a currentineary 7204. Night one inter from these figures that when the same principal was conferred by containing the one of the same principal was conferred by a containing the same principal same principal same distribution. Done you require made, you to que't a discontained that the same principal same principal same contained that the same principal same principal same contained that the same principal same principal same same principal same pri

country shields at well as of the 'kwell-"-Yes, over 2750. World is a fact that the formers thereshes countries full to heap a unfolded question of 2750. World is the countries full to heap a unfolded question of 2750. Who whe would use be in very independent 2750. Who whe would use be in very independent 2750. How whe would use be in very independent 2750. How whe would use be in very independent 2750. How whe would use be in very independent 2750. How when the countries is a second of the countries of 2750. How is a second of the countries of the countries of the 2750. How is a second of the countries of the countries of the 2750. Milk is more other relabelloss II—"See. Milk is more than the countries of the co

softer 167. They contend got no verbours a supply of 7000 Dr. Dye other, if was end destinable that is a findence such as you refer to its best authentic such as you refer to its best authenty should be the best and the such as the su

al postability is would serve a great dril of accessive properties of the Fee III and selling with accessive that accessive the accessive the

we have a difficulty in tenting the source.

72113. You have to deal so only with the contrastor, but with the sub-contractors who supply limin.—Lea.

63 a public inside the sub-contractors who supply limin.—Lea.

64 a public inside the sub-contractors who supply limin.—Lea.

65 a public inside the sub-contractors of supply liminity in the case of treefing disease.

7214. Have you cere suspected the milk supply as exactions or typhoid broke out, we investigated the milk supply liminity supply.

a normon of unfeediness algorithm, we have, "When exacultating or hypolical levies on an investigated for mallic angels," and normal networks are investigated for 2532.6. And it for more of the disease."—Yes, a malarchicity, 2533.6. And it for a few contents of the contents of the 1533.6. And it for a few contents of the contents of the 1533.6. And it for a few contents of the contents of the 1533.6. And it for a few contents of the contents of the 1533.6. And it for a few contents of the contents of the 1533.6. And it for a few contents of the contents of the 1533.6. And it for a few contents of the contents of the 1533.6. And it for a few contents of the contents of the 1533.6. And it for a few contents of the contents of the contents of the 1533.6. And it for a few contents of the contents of the contents of the 1533.6. And it for a few contents of the contents of the contents of the contents of the 1533.6. And it for a few contents of the c

town or bits a compassion districts, In all probability
would, would primarize the infestion of this
stry would, would primarize the infestion of the
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SOLF. We have been that recently the Sign Bornt
could have appointed an effecte or enforce the previousne
of the Divines and Cowhold Ceder. Up to these time
that the raftly would be produced under closely coditions. In the country of the control of the country of the
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indistributes when weaten you to exceed them, so a regar a condition. I want them have been frequent conception to the second of the second

on presentions were taken in regards describes. The logs rever work the mader, then you per them that you rever work the mader, then you per them that engagested while milling own. I meation that as a meaton of the reconstance of the low. I flat! White the contract of the logs of the contract to the public me calculate. I start they want, then public me calculate. I start they will be to upon sect. They drink mill which is lirgour. I easily sect. They drink mill which is lirgour. I easily sect. They drink mill which is lirgour. It as a start of the contract of the contract the limit which we have a point with correlation. When we executed they can deal they contract we executed they can deal they are we seeming the can of milk which are we executed they can deal they are we want to the contract when they are we want to the wan

recovery of concentrum and macentrum questionly of Thistiers, as from mostle foods, and it is extensively make a section of interpretable to the control of impare author that you find.

2720. Which shows how tittle ours is taken with the milit—Yes. If you put milit into a trackler, the motion of the truthler will show the excellents of the motion of the truthler will show the excellent of the way to thought of any solution where the military of the property of the property

27257. Have you throught of any solvense whereby the beawledge and dearger string from the use of improve mile, on the disseminated amongst the public generally? —I think Lady Aberdense's work, and the work of the Women's Matheast Health Amendation, have done a great deal. Until they came we were not fittened to. 27258. The visits of the nurse to the homes of the

27239. Is it a metal means of disseminating the knowledge?—Yes. 27340. You have a Jubice purse here?—Yes, and I 27241. You would be hopeful, I take it, that the knowledge they would disseminate in the homes of the poor would be the means of educating people regarding

the value of milk and the necessity for keeping it clean !-- Yes.

27245. Wrold lectures be helpful?—Yes, I think so. 27248. Unfortunately, of course, the labour of the sures syst be restricted to a confined area and will reach the entire population?-No. not reach the course population?—No.
27846. Have you ever trived any collarsk of infections disease to the milk in the institutions with
which you are connected, or in your private prostle?

I know spidemins that construct which may be trace-

oreameries. \$7245. Would that he by the use of separated mifk

from the creampries, or from the intice manufactured at the creampries?—The separated milk, I think. 27046. Have you formed any opinion as to the value 27247. There is not much consumption of it by the

indestrial population so far as you knew?—I don't think so—not so far as I know. 27348. Ledy Evenano.—Do you shink that if in the would have some effects. Touching the dangers of milk its would have some effects—Yes. I think hypicae should be taught in the achools. Touching the dangers of im-

tre milk would have a good effect. 97249. Have you a Rebits Club in Sligo?—No. 97250. You have a ignock of the Wessen's National Width Association here?—Isa, and a pure mili depot has recordly been autoblished. They get a certificate that the owns are free from tubercubes, and they are that everything is olean in connection with the milk. There is no election-ton done, but everything is soreprisonly clean. I think matters have improved since the old days when they were deplocable. One

since the old days when they were depleash. One outpill not speak too sterupts of the condition of the delices, and the fifth recallities of the cores; one was occustomed to use dirty deather and widers govern occused, and there was no inspection of any kind. 27240. Here year much tolerculoids here meaning present up people — There is a fair share, it think. Think, Think

52. Do children sat calmed periode 5-Very I have been trying to get them to cat it and to little. I have been trying to general take it with milk.
27200. Has any move hern made in 60gs to the school-children a midday meal in winter?- No

27254. Is the long-tube feeding-bottle used?-The long-tube feeding-bottle is in evidence very much. 97255. And would you disapprove of 117-Very

27256. Do you think the mothers realize the value of mile for their children—the value of mile as compared with other retieles of diet — think they know more than they did, but up to recently the idea was that milk was a weak food, and children were only fed on

27207. Are these any goats kept in Sligo?—Not in the town. One would be very gied to see goats in the rural distorts.

They would be a great kelp, I think, to the people I have mentioned, who in the case of illness are manble. in get milk.

27259. Do you know there is a breed that will had
at any time of the year?—I have beend as.

27200. The Women's National Health Association

are very arrises to send out these improved breads of goats—Fee.

97301. The Department of Agriculture are willing to

halp them in any way they can, and they are trying to get up a stock of grate to and them throughout the country - Yes. Is been dreding commen 27252. Dr. Macountan.—In hermi-fe-in your districts—I think it is common.

it is no common so it ought to he. 27263. Do the people use any substitutes for milk? "Sage, not things of that seek.

"Sage and things of that seek.

"And the seek of the seek of the children?—I have
hand of it bring added to the feeling lottle. I came
scenes a fine insolaume married vocum who completine

few mouths old and a boy of two years at the of a few moment out and a toy of two years as the same time, and she was completing of loss of sight. 27035. Would you say thes tolorevalue is on the in-crease?—I would say it is on the decrease bately. 27203. And is the born from said the joint form most

What do you attribute that to?-I am inclined with the proportion of the whole thing-sin-saffeient feeding and the obsence of good suck. 27568. Do you notice the cover in a bal condition as ETMS. Do you mosse the cover in a bac commune as a rate?—I take there is a distinct improvement along your Commission came into existence, but it was to.

plenchin for years.

2016. Do you man the emanisted sendition of the owned—No; the fifthy condition. No one ever throught of cleaning a cave before militing her. 2220. There are no visibly diseased covers—No. Then are very few sunraped the lifey could 2221. If the roll is tented with tubergelosis there

must be a large number of the core which are teler-culous?—I have no doubt there are. 27372. I suppose you would approve of these core 27272. I suppose you would approve of these cown being imposted?—Xon; rigid inspection. I strongly

being imposeded—Yeas rigid imposednes. I storage bilatio, is the same of every version of milk, that their parasites should be strictly imposeded. I am in favor 23700. A whole-time offener—this country. 23700. A whole-time offener—this country. 23700. The proposition of everybody—Yea. 23700. The proposition of everybody—Yea. 23700. Long proposition of cells brought under the proposition of the proposition of milk brought under the same realizes and regulations as new milks.

Certainly

27270. At reasont the home-made butter is not under inspection?—No.
ITHY. We have had evidence by experts that butter with the tuberde hacilli is it has been found in the milk that has been aburned and reads into butter?— Tea.

Mr. Jacobs Contra examined.

27278. The Caumann.-I understand, Mr. Collin. of ats manager of a creamery at Collonary-Kes. 27279. How long have you occupied that position 9-About four month About near monus.

27190. Are you recently qualified as a manager, or had you experience elsewhere?—Yes, for eleven years.

27381. In what other district?—Principally in Col-

looney as nesistant manager. 3728S. You have been connected with the Collectory creamery for a considerable period?—Xes.

97385. And have later on become responsible for the management?-Yes. 27284. In there any improvement in the condition 20034. In there any improvement in the condition in which the milk is being sent into your crasmers, during your expectson?—Yes, a gest improvement. It is principally due to the Department, whose is, aprelor comes sound and inspects the expellers' came regularly. Of course, the areanesy rejects now milk, and the manager impacts the core two or three times

27386. Do you supply ony steam jet for the zristo. Lo you supply only steam jet for me purpose of cleaning these came at the creamery?—No. We get up one, but it was taking up so much time the farmers themselves objected to the wests of time. farmers, tremserves, occasion to be waren at home \$7390. Now do think that they are more annual not to the maximar in which they loop their came than they were in the part!—Her, because we would reject any one that would be drivy. There is no necessity driving the part.—They have been supported that the control of the part. and that would be dirty. There is no necessity users to past faw years for doing that. Svint. How many deliveries of milk have you beer

obliged to reject yourself since you herems manager? Sought to releas yourself time you become manager —None at all.

27398. How many have you seen rejected by your preference in official—I cannot say rasily.

preference in official—I cannot say railly, 57899. I don't want you be give not the exact num-ber, but what I would sak you is how often suffi-would be represent; would it he noons a week or some in three manths?—Not officiar than cook in three months. 57900. Is the see lesion notificate to be such the sup-places the chigotien of sending their milk in in a proper conflictant—I abstract man.

Mr. Janes Cours. -- 9th dupost, 1912.

the half-year is much below last year. 27322. Would there he much increase in the cuspitive

27321. And the cold?-Yes. Our average test for closed a one property to show the supplier how it of milk sent to the creamers?-There is a wonderf increase; we have an increase of \$5,000 rallors over welk sometimes subjected to other contemination and at year. 27535. But you are dealing with a larger number of сожи?--Уев.

You naver rejected it from that point of view? cover.—Yes.

27006. Would you have any means that would snable
you to compare the average of this year with last year
from the same number of cover.—No, but I believe No. We rejected som milk. 2224. That is a different thing. Would you reject discoloured milk?—I never new it some into the place. 2226. Do you think are core become careful to been there is a great increase.

27335. Is it your experience that from the cow which Secoleurid wilk out of the creamery arguing-I think

is a light milker, the vield of butter for from her milk would be greater than from the mile of the new which special be greater term from the most of the wave managers in larger built—IT at it the case from time to time, but at the save time I have seen cown giving a small quantity of milk of a poor test.

27888. It does not necessarily fellow that because a over in a light militar she will give a milk richer in botter tat?—It does not follow.

27357. Are the farmers exercising increased care in the selection of their cover?—Yes, they are, 27808. And they are trying to breed suimals that ore Ekrly to be better milk suppliers than those they have been using?-Yes.

have horn uning?—Yes.
27300. All these things, I take it, will be helpful in
the eventory industry?—Tes.
57300. I surror that it is the desire of all engaged
in the management of creameries to produce the best
reache for these suppliers?—Yes.
27301. It has been represented to the Commission that the eresoneries in certain districts have been re specialize for limiting the supply of milk for domestic purposes, and it is also suggested that if the creameries

preprises, and it is nin suggested that if the creameries serve obliged to sell milk rebuil in small quantities in world in some degree dimensus the smit safeting from the introduction of the creamery system. Now, I want to know from you, as a creamery manager, have any it would interfere with your work if you were obliged to sail milk, provided it was necessary in your facility, for an lower in the nevering sail as hour in the evening to those who might require small quantities?-27022. You don't think it would complicate the mea-gement of the creamery to any considerable extent?-Not in the loast.

27833. And you think it would not be an unreasonallo condition to impose on creameries where the neces-sty exists?—Not if it was required. 27834. You never sold milk yet at your coamery? io. We have never here saked for it.

27335. Nor is there nav necessity for selling it in your greamery?-Not the least. 27386. And the person vaniting milk there can pro-cure it?—Xes. In fact we have suppliers selling milk

Iro 82.—Xcs. In last we have supplies seeing mass, the town sending on their simples. 27887. When they cannot get a market for H?—Xes. 27838. Miss McNunk.—Ton don't make on getting 27355. Min Mountain.—150 can't make on gering all the milk the supplies have 5—No. 27836. The Charman.—Would the suppliers he forhidden by the occumery management to sell milk for any other purpose?-No; the supplier can do what he

Here with it, \$7300. There is no condition imposed on him in that way?—Bo. I have never known it, to my knowledge, in any creamery. \$7340. What is your lettler madiet?—Manchester, London, Laverpool, and Ghagow.

27342. What quantity of milk are you dealing with at the present time?—We had \$50,000 gallons for the month of July.

27543. In that the Inggest quantity you have ever dealt with at the creamery in a month?—Yes.

27364. In there a depressistion in the supply this mostle?—There is, 'The supply is falling lack for the

month of August.

27845. Is that went usually happens?-Yes. 27546. And it is still lower in September and Octo-

27.547. But you are always able to get some milk to keep you going two or three says in the winter season?—You, generally two days.

27348. In there any provision made for the storing of milk during the period that it is writing separation: —No. It is brought in on the day of separation. We may see it until we are raidy for separation.

s. They never supply it. \$7296. Do you over sell superated milk?—We would of there was a surplus, but the autology have to see per orth back.
20297. Is it calculated that the alimination of the ceem deals with 20 per cont of the soties bulk next is 5—From 12 to 15 generally. There might be a payint-From 12 to 16 generally. There might be a sor-plus over, and then it would be sold to a neighbouring 27298. For what nurpose?-For pigs and calves.

27291. And he does not offend a second time?-

27222. Independent of the one alterether.

with freen matter?-I don't think so 27233. You naver rejected to a
We rejected sour milk.

dent

-No. We re 27294, That

and baking bread.
27200. Would it be cerned away by the consumer from the occurrency.—You. 27300. In such quantities as a gallon and two?es, generally. 2701; At what price?—1jd. o gallon—1d. and 1jd. a gallen.
27303. Would more or less be available in the winter
or in the summer?—There would be practically none in winter time.

25506. In there my increase in winter damping in your lecality?—I don't think so. 25506. We have lessed from Mr. Gallagher about the operations of his cow-testing association. Do you think that would be helpful to you in inseresing the yield of the cows?-You.

yield at the cown?—Yee.
27055. As you in favour of id?—Yee.
27050. Do you also think that many of the fizzners have incervot actions as to the milk yield of their cown?—Yes. The fermore genreally are taking it up because they say it is paying them.
27057, And in likely to be an advantage to them in active range is menty to be an advantage to them in the fotner?—Tes.

27368. Your average price for the summer months is about 5/104, per gallon?—Our average price for less pur was 3/676. 27300. For about seven or eight months?—For seven mostles, and it was 44d. a golfon for the winter meetts, and it was 44d. a gallon for the winter mostles or thereabout. 21810. Do you find a murked difference in the yield of laster fat teem the milk produced on different hands? —Yes.

-Yes. \$7011. Do the farmers ever have their milk tested individual court—Yes. for the hetter fat of the individual count-Yes. 27312. Has that practice become more general?— Inc. since the con-testing association has been estab-27315. Do you find that them in a very material difference in the yard of butter fat from the milk of individual county—Ees, a goest difference. 2334. What would be the range; from the normal how for would it go above and below?—Three would

27515. How many of the sumples that yet test would be below the mornel standard for horizontal in por-mility—I am sure there would be about 50 per cent. ** \$7816. Fifty per cent.?—Yes, peachfully. The sverage test for last year was about 3-5 per cent., and if a most comes in with five or six cows the sverage If a cost comes in 1 would be under \$-5. 27817. And the combinion you would draw from that would be that the mile of half his owns would be tooler the legal standard5—300 under the legal standard. There would not be 20 per cent, under the

legal standard. Title, How many samples have you found that would be under the legal strained and if extracted to tradysis would be certified to be definited in butter fast? For the past month we have 1,500 suppliers, and

there would be shout one hundred under the legal standard. \$7519. Was that because the year was emertional?

-Yes. The wet weather had an affect on it. 27820. An excessive amount of rain and soft grant?-

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Mr. Jases Cocacs.-8th Assess, 1919.

27849. Where is it kept by the farmers during the period that it is reconstitute?-In his dairy. I period 1998 to 2 speciale a nella store in connecilion 19930. De they previde a nella store in connecilion with their core byres?—Some do, I think. 27861. How often in your arcsurary impected by the Department's impossion—to least once a machi. 2703. And possibly two or three times within the 1993. And possibly two or three times within the

27333. What sort of impertion does it get; is it mently a superficial imperiton, or are the vessels examined and the tubes?—He exemines all the vessels; stl the covars case, tracks, and everything in connection with the deaty, and also the sewers. 21834. When provision do you make for dealing with the covariety sludge?—There is a big river passing by, to4

27555. And it disappears?-Yes. That is all we

27386. You rever got into trouble over it?—No. 27387. Is it a river that is preserved for the fishing?—It is, I helieve. And the introduction of this matter has never oved detrimental to the lives of the fish?-I don't

proved detrinated to me trees to the nutries and blink so. Of course, the fish are tower in the reser. 27330. Is the chalge discharged into the river always? —Yes. —27350. Ass you ever obliged when in the process of separation to stop the maintenery for the purpose of cleaning the banks. Yes.

27561. Always?—Generally. 27563. When you are dealing with a large quantity? 27000. Do you find that of screen scenario there is

a larger deposit in the low! of the separator than at other senson?—Yes. 27004. You would have more nonunciation of solid matter in the bowl of the separator when dealing with milk that use drawn from cattle in-fed-ful in the lyres?—I final we would but the supply would be vary small. It is principally in the senumer time during the box weather, that the sulk would be per in the summer time. city fresh that we would have a larger deposit. 27365. I quite see that it is different to establish a complete samperison, because, in the syster season, spe are dealing only with a small quantity, and every time you carry out are aleaned?—Tea.

27300. And the recognition could only be complete if you are desting with the same quantity in nunter and in summer?—Quite right,
23807. So, from that point of view, it is impossible
to arrive at a district conclusion!—Yes,
23800, With regard to the condition of the milk in

the winter season, is 30 spars often diety than when the timour season, is in more office unity than which the corts are on grass?—No.

27000. Yet have no reason to think that the condition is which the core are kept in the Sprea increases the risk of basing dirty milit?—No. I doe's think or

27870. What holgest do you reise the temperature to for superation?—From 140 to 180 degrees. 1. Do you subject the whole body of the milk

that temperature?—Yes.
27072. Is it all being dashed against the heated sur-Suce; in it in medion during the time it is in the vary-R is in motion in the heater, which holds about 25 or 40 gallens at a time.
27072. And it is constraintly flowing into and out of the kenter?—Yes.

TOTAL Lady Evenann,—You cool it after it is eparated?—We never cool the separated milk. 17076. Do you cook the cream?—Yes, immediately

STSTO. Have you a refrigerable plant connected with our avenuery I—Les. 27877. And a good water supply?—Yos. 27878. The Channess.—What temporalism do you

think it is necessary to raise the milk to in order to eliminate more completely the butter fat; do you think it is necessary to get it to a temperature over 140 degrees?—That is quite sufficient. 27070. And is it for the purpose of destroying the grems that may be in it that you increase the tempera-ture from 140 to 180 degrees?—You. At 140 degrees the germs are probably alive, but after 152 degrees the

to germs are processly save, and alter LO, suggests we true are positically falled. 23360. But what I wanted to get from you is this— to you expose it to the increased temperature with the dea and desire of destroying disease genus in 117—20. 27181. And for what reason do you increase the ten-iorators?—The temperators varies from 140 to 12 from 140 to 152 Segrees, has from Mane to time the temperature rises

to inc.
273.68. How in the temperature taken of the milk passing out of the heater N-There is a thermometer bited to the pipe, and the most taking in the milk on on the temperature at a glama. It is checked egularly.
27360. And if the temperature was not up to the

recent devided for the purpose, would the precess be responded until the heat was four-med?—Yes; until the heat was at teast 140 degrees. 27884. Does that sprectimes happen?—It has hepfrom time to time. 27585. Owing to the insufficiency of the presents of the steam on the boller at the memorah?-Yes.

27581. It might happen after you began to work, and before you had a strong head of stoom on the boiler?-Yes, that is so. 27087. Mr. O'Brant,....How many members have you in your scelety; it is a co-operative scelety?-Yes. 27180. Are all your supplies members?-Yes, they There are some who are not mornbers yet, had con whom we are stopping share capital, and after we

have the allowance stopped we will sak them to become 27580. On the back of £1 a cow?-No. £1 shares.

Mr. Josse Bosser Barrar, errenined.

27300. The CHAIRMAN,-Are. you interested, Mr. 2390. Do you think that a now calving in the month of Kovember would give a heavier milk yield for the twitten months than the new that calves in April or May?—Yes. Barber, in agriculture in the Collectory district?—Yes, 27821, Are you a deary farmer?—Partly, 27032, You carry on a mixed system?—Yes,

27323. Do you go in for winter dairying?-No. 27400. And that would be a further advantage in 27034. Do many farmers in your locality go to for winter dairying, if carried out—the increased yield per cor in the twelve monitat. You. 37401. And would go to help the profit derivable it?-None that I know of. STORE. Do they even been a sufficient number of cown 27401. And would go to help the profit derivable from winter dallring . Yes.

Stock to tary even some a statement in the without to supply their household requirements in the without Test, and anything over they send to the creament after feeding the culves. They give onlyes new milk for a mouth or six weeks. 27396. In it believed that it is difficult to make winter

dairying pay?... Yea, because of the proce you get for the mile 27807. What do you think would be a ressonable rise to make winter deficies remanemative?—You would went to get over 6d. a gallon at any rate.

27206. In some creameries we have been told that sex do give ones 6d. in the relater sesson. We have Flows, In some creaturing we need from two have they do give over 66. In the winter assum. We have been informed that the average price in some districts is 65, and 76. If you could semmand that price you would be likely to increase your winter delaying?—Yes, and a good many others would also,

from winter anaryang;—res.
27402. Is that first of the winter outring cow recog-nised by dainy farmers generally?—Not by the let-rors of the letter of the letter of the letter of the 27403. I quite underland. That is just exactly what I would have throught. Do you keep milk records? I started last year 27404. Are you interested in the Cow-tenting Associa-

27408. Do you think that that is a unclul scheme?or. 27406. And Horly to he helpful to the dairy farmous

in making their industry meet profiteble?—I think so. 27407. How many of the farmers in your locality 27-917. How many or one farmers in your totality registered cows under the new schools for the popularegistered cown unter the new reasons for the popula-tion of daily builds. Yeary fow as yet. Steak Why-in it because they are not familiar with the provisions of the scheme?—Yes; and they don't know whether they would be selected or not.

Mr. Jone Rosser Bances.-Oth August, 1912. 27441. And they get weaker specimens and poores

2969. Do you blink that the standard flared by the Department is unrescently high ~— I don't think at 25th And got in the case that the condition of the condit will yirlders to supply the creasery and for the forms!

-Yes, zearly in all cases. 27442. Is there say change in that very unfortunate and injurious castem to recent years, are the people and Spanous casers, as event years now than they were ten or filters years ago!—They are.
27448. And is it the mountity of getting a sum of

mile?—Yes. money to meet a pressing necessity that sometimes induces them to self?—In some cases it would be. grev—res. 27422. And if winter delaying is over to be made great. Ann is winter dairying is ever to be made popular that becomes still more essential?—It does. 27433. It may effect made to graw catch circus to supply grean folder for cows in the winter and early 27644. I hope the number of these cross is diminishing. Do wer think it is 2. Yes.
27645. What class of bull in used in your locality?... sypty mean folder for ones to gave catch error as system.—I don't know of any compet one or two. TWH: I will be competed on two competed one TWH: I will be competed on the competed of the TWH: I will be competed on the competed of the TWH: I have be facilitied for its introduction.—He is. TWH: Don't be facilitied for the introduction.—He is. TWH: Don't be facilitied for the introduction.—We is, TWH: Don't be facilitied for the introduction.—We is not operation of the provided former?—Yes; in some cases it a very different.

The shorthern. The services shorthern — Yes. 27466. A pure-head shorthern — Yes. 27466. A pure-head shorthern — Yes. 27466. A pure-head shorthern — Yes. 27469. Here you say, 'Essentiage of the type of animal horews at the side Irish dairy control. — No. 27469. Here you say, 'Essentiage of the type of animal horews at the side Irish dairy control. — No. 27469. We head of her consistently, and one won-head with the present Minne-New Acceptance of the Property with the present Minne-New Acceptance of the Property with the present Minne-New Acceptance of the Property of t if is very different.

27417. I should hope that the difficulty would de-arene after a little time, because it is really one of the essentials to the development of winter dairying?

due whether the own had my existence. Now never as we ber in the finds—No. 22461. Did you ever hear of her spoken of in your districts by the didey people—Ver. 22462. And, of coverse, like everything satisfars, when we will have the state the state of the present day!—Yes. 24462. The wave considerable has the present day!—Yes. 27439. World the formers in this district be willing to undertake the increased teachle, below and expense which winter dritying would involve if they could caske it pay?-Yes size it payr— ass. 27429. And the labour question would be no dafficulty 27419. And the Heart question who as no sales with them. Not very much.
27420. The only thing they would need to be
genuised would be the reconcernive return for the
equital expended and the labour critified?—Yes.
27421. Would it not be possible to give a better price
27421. Would it not be maintained. 27423. In your experience has the yield of milk increased or diminished in rooms years?—It has inlittle, I think

27454. It is gratifying to get a statement like that from a practical man when we are told that overything is document in this country. Does any feeling prevail for mile at the creatments if there was a sufficient for male at the crements if there was a summary quantity available to keep the meckencry working and the staff employed during the entire winter monitor? autorgs; the cowheepers against the use of the pre-mium bells?—Only in a few cases.

24460. Did you ever hear of 197—I did.
22460. Have you ever beed ony of the cross-bred Abundoon Angus as miled covers—No.

25407. Are say of them kept in your district.6—No.

Not in Collectory, because the expenses are very high. 2022. What I went to got from you is this—that winter chirying is hendicapped by the very limited capply available for the overcomy to deal with during st I saw the pure-bood kept. 27409. Wast was their record in milk?—Some of 27420. And the cost of dealing with it is enormanually seressed thereby?-Yes. them were as good as the shorthers.
27459. With regard to the quality and percentage of cressed usernay?--a--. 27424. And if a rufficient quantity was available,

would it not go to increase the price of what would be hutter fat?-The milk was richer in butter fat than from the abrellorn.

27600. World this be from the pure-bred cowe or

27600. World this be from the pure-bred.

27601. Have you my experience of the coses befrom them and the abrellocen—Box II have saw these

27601. Have you my experience of the coses befrom them and the abrellocen—Box II have saw these 27425. Because the cost would be lessened consider.

sky?—Xee.

27425. Do you breed your own cows or kuy them?—
Sometimes breed them, and sometimes bry them.

27427. How do you find the cows you buy as com-2002. Have you much mortality in colves in your district?—Very little except from blacking. pered with the ones you breed?-Semotimes as good, stid in many cases not so good.

sidd in many cases has so goon.

27428. When you are selecting your own heiters do
you inquire us to the milk record of the dans?—Yes.

27420. Are come ever sold at fairs with the guarantee. 27668. Do you suffer much from abortion in your herds1—No.
70164 Neither of these are masterial hindrenees to the development of the dairying industry in your possibly—No.
you had any visit from the retriency topestor appointed by the Rural Council in Singe under the Drinis and Cowstable Order1—No.
71666 Has he been in your lecelity so fee on you known—No. Hall I am owners of. that they come of a good milking strain?-No. is no purcease given.
27400. Does a hayer over sak a seller whether he knows if the cow somes of a good militing strain?—

ery seldom 27481. He buys on appearance sloot, and his own salament? Ves sigment?...Yes. 27632. Without a knowledge of what her dam or 9063-dam has been?...Yes. 27467. You never heard of any visit being made to any now-looper in your housity by the imperior?—No. 27168. Who is the graticum appointed?—I think

27433. Are the farmers good judges of a milch now, a n mic?—I think so. 27494. Do you exercise your own judgment in segard. 27460. Is he a resident of the town?—Yes: I am to the conformation and shape of a cow when you are beging one for dairy preposes?—Yes. not quite pertain.

27470. Is there much prospect in your opinion of
the development of winter darrying under the conting 27433. How cours no you find your judgment borne out by the results?—In nearly every case.

the development of winter durying under the children condition of things?—Not at greent. 27411. There is no projective equies it except the difficulty of making it resumerative?—No. 27412. Here you often heard of milk being returned 27636. What price would you pay for a four or five year old cow of a good chase in the fairs of this country? —At the present time \$15; but any other time you from greameries in consequence of being sent in an would go to 220, and over it.

aren occasioned in consequence of need that in in-unclean condition.—Not in Collector, 25413. How is the stills stored and kept in the win-ter over the days that the overmeny is not working?— 27427. Is there a poor demand at the present time?

—Yes; because they cannot got them abipped. 27400. So that may one venting core at the present time could buy them adventageously?—Yes. Most of the people put it into come and immerse it in a tob of water. 27474. Where is it kept?—In a dairy. 27475. Have most of the farmers, even the small

27420. In it a fact that the best type of milch cown see bought by exporters at false?—Yes; they nearly all farmers, some provision made for the storage of milk? SO MEAT. \$7440. And those engaged in the dairy industry are implied to sell their best cover by the offer of liberal prices?—Yes. They nearly always sell them if they 27470. All of them?—Nearly all. 27479. Even the farmer lengths three or four cows, has he his byte in a reasonably efficient state?—Tes. Under the Order nearly all keep them properly.

get a good price. The Printed image digitised by the University of Southampton Library Digitisation Unit

Mr. Jone Rosser Banne, - 9th August, 1915. 27478. Have they got concrete floors?-Yes, and the

Places at And there is more ventlistion and more ele space?—Yes.

27490, And the fact of the Order being pot into force by the District Council has induced a certain amount of improvement in the meaner in which the are kent?-Yes.

27:821. Is there any inspection made during the summer sesses of the militing of the core to assertion whether or not the venuels are kept clean, or the bands of the nullbars washed, by the veterinary suspecpears of the milkers washed, by the veterinary suspec-tor, or any other officer?—No, not that I am aware of, 27693. Have you suffered may been from telecoulous affection amongst your stock?—No. 27488, Nor is 15 known to 3

luppen in your matrict?-No. 27482. Nor is it knows in your district.—No There are no cases of it at all that I know. 27484. Are there other districts of the county when it is more prevalent according to what you hear?am not owere.
27485. You have not heard of any losses arising from

171-No.

77485. Dr. Mocommun.—Do you ever come aurous a pinor an allb—No.

what it inf—Eco, but I never now it.

Thiss. They are not about the distinct at all—Six-Thiss. In the sulfs source lay your district, are there any people acting form the week of it—Six.

With Any of the bisoning people—Six, they say.

This, I do the bisoning—this to be any fact it—III.

This, I do the bisoning—this to be applied to the bisoning—this to pay fact it—III.

This, There is a planty of milk if they wish to key it it—ii.

I do the six of the bisoning—this is the pay fact it—ii.

This, There is a planty of milk if they wish to key it it it as planty—this.

This is no too their week in the contribution of the weak it.

prestically,
27464. Do you keep mift records?—Yes.
27466. How do they uses out for you?—Fairly wall.
27456. What was the best test of a cow?—I connect say from memory.

Wolf. How many gallens can you get from a new in the twelve months?—I have not the records for The CHAIRPEAN.--You have got some cown to-

spected for registration?—Les.
27493. You are hopeful that they will qualify also under the conditions led down for the milk yield?-40 ware they will. 1 Sare they will. 100. Are these spring-miring cows?—Yes. 101. That would be in the month of March or

Arrit-Xen. When these cown calve in the month March or April, do you give them any hand-feeding?

—Turnips and crushed eats. When the turnips are Through the crushed one, who is they get nonapoles, strong the magnetic strong of the red

27500. Do you over give them came or mean?— seng once get cake. 27500. That would be when the colves would getting all milit — Yes, and the con-year-olds get it. \$700. When form of int do you give to the calves so as addition to the separated milit — Play and, Yo.

27508. In it whole flax, boiled or green

27309. In 19 whole flax, builted or greats 1—Yes. 27300. In the tend in being weter?—Yes. 27500. Do you think you can rest as bealthy stock in this way as you fild previous to the introduction of the creamery system 5—Yes.

27585. The CRAMMAN.—You come from Killsle?on, quite close to Krilada.

2700t. Is that a creamery district?—No; there are no creameries in North Mayo, or in any part of Mayo, I think, 27527. In there any accounts of milk there?--These

is a big essenty, especially near the North Coset line, away beyond Killals and right into Belmullet. away beyond Killais and sight into Belmones. 27508. All along the Atlantic sea-board?—Yes. 27600. Is in a companied district?—Yes, very con-

greted. 27540. Is it under the Congrated Districts Borof?-2754). They have been beinging in the Gallowey bull into that district?—Not for six or eight years.

27511. And can you make as good yearlings out of cabble so fed as when you were giving the whole milk for a month or six works 5--Yes. for a month or art weeker—nea.

37512. It en told that the feeling provails in certain
districts that the creaments are composable for the
dispression in the classorter of the store stock in
lesions, and it wasted to know if you subscribe to that
very—No. The ceives get white nith until they are ebout a month old. 27513. And then you begin to give them constaled milk!-Yes.

27516. And also comothing to supply the butter fat that has been extracted?—Yrs. 27515. Do you give separated milk in large 27515. Do you give separated milk is large santition!-No; three quarts at a meel. 27010. You give them no more separated milk then you would whole milk, if you were feeding them on whole milk?-No.

27517. If you have a surplus, it goes to the pigs?-27518. How long would the separated milk keep with after being seturned from the creamony!-Without toming sour you mean? Yes ?-It would keep for about twelve hours on e bot day

27020. Have you say experience of drinking separated milk yourself?—No. 27021. You never dress it?—I have taken a mouth-27/322. In it unpicessant to the points?-I don't like

2023. And any one accurate to drinking pure mile would probably be of your spiriton —I think so. 23394. Independent of its poverty, has it also an un-pleasant effort on the palate; you don't like the tate 27:23. Would that hoppen over with milk that had ones straight from the separator?—It would be just be same I think; it would be quite hot too. 27:24. Of course it is quite hot when it general tour. the separator, because it is ofter passing through the brater then; but suppose it was allowed a sufficient blaze to cool, would it have an unpleasent testernot table it may way when it would be twelve hours

the greamery 27327. Is there a prejudice against its use for human consumption?—No one uses it for human outstrongistion.

19730. Is there a projudition against its use in this
very—that people think it is a dangerous food to consome 5—I don't think so. 27029. It is becouse it is unpleasant to the points 27039. It is become it is unpresent to use passes that they don't take it?—You. 27030. Mr. O'Bans.—They would not think it is a food for a burnen being?-No. 1 mon my a number own are there on the farms that 17531. How many cows are there on the farms that 1760 is eccument to which you soul your milk?— he awarer would be about five serve.

The druckies brown on account the core.

23522. It suppose proclically there is no labour conpleyed on their form. There is purhaps one purson in
a cleary, but most of this work is done by the formy
himself and his family?—Yes, but in a good heavy
case there one more cores than fre,

27534. And they keep enough milk for themselves

too?-I suppose they do.

Mr. JAMES O'BOTIS, J.P., examined,

97642. But they were introduced?-Yes

wees scoling round belle and bears they did not do it so much it Killole as in Communes and Belmullet, and Bengor but I find some of them even with a great deal of the

breed at the present time.

21546. But they never did produminate in your locality?—No.

27565. What close of now is kept in your district?-The shorthorn cross and an Angus cow.

27545. Where did the Anges cows tome from the Anges bulk was always knot to Killala and in The Augus bulk was slowys Mayo; the majority are Angus hulls. . .

Mr. JAMES O'BOXES, 9th Avoust, 1912.

27:47. In Mallarmany they complain of the effect of the Anges boils on the mult supply 3—Ton. 29:46. The light yield is abcormally small from the case that we hope—Tony small; they would hardly 27:44. Here, you are recollective what the sufficient of purious to the introduction of the Gullberry 16:75—Lebberr they were military a good field inter-

31

buffer-L believes they were militing a good seed stores, and the support of the property of th

see a state of the control was against in the both break critical white would you against in the both break that of the control was a considerable differently. I can straight a control was a considerable differently. I can straight a control was a considerable differently. I can straight a control was a considerable differently. The straight have not belief to give good cover-break control was control to be soon to of the control was control to the both look.

I can be controlled in the both look.

The was controlled over the see to be a straight as the controlled over the see to be a straight as the controlled over the see to be a straight as the controlled over the see to be a straight as the controlled over the see to be a straight as the controlled over the see to be a straight as the controlled over the see to be a straight as the controlled over the see to be a straight as the controlled over the see to be a straight as the controlled over the see to be a straight as the controlled over the see to be a straight as the controlled over the see to be a straight as the controlled over the see to be a straight as the controlled over the see to be a straight as the controlled over the see to be a straight as the controlled over the see to be a straight as the controlled over the see to be a straight as the controlled over the see to be a straight as the controlled over the see to be a straight as the second of the second over the

Fig. 1, we share these are showless over this confidence with the consideration of the state of the confidence of the confidenc

sourcould pursuing the units you'd—Now. I think you'd—Now it was the present on the present of the present of

from the assessing, even that of the plant, is as some steep polletter at the Calcaire. We had this same steep polletter at the Calcaire, which can do the section of the term of the calcaire which can do the section between the steep when the calcaire at the calcaire at the term of the calcaire at the calcaire at the calcaire at the steep of the calcaire at the calcaire at the calcaire at the steep of the calcaire at the steep of the calcaire at the present at the calcaire at the calca

to other connect incredible. Although they were incredible provided in whose up to a portary point by credible, now, as secured of the ecceeding, they are deteriorating the control of the ecceeding, they are deteriorating three provided in the milk yield from a cower in your heighbourhood. The control of the control of

long either.

2187. And oven with singulating feeding, you would
feel great eithered; in extending anything like a reasontile assect of milk from those county—You would have
great difficulty.

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2000. Do you think that the ento-heal I have spelled askers, between the property of the Department's absence, recall to good the thousant to the property of the property of the production of the processing opening to go the stay to good of the processing type from a good mining status to all the processing type from a good mining status to all the processing type from a good mining status to all the processing the processing type from the processing status to the processing type from the processing status to the processing type from the processing status to the processing type from the pr

Aberdoon, Argest, deem you, and freux what either with memors have attached, they urises sensotting is distore to introduce as new militing steam in Mayo and North American as new militing steam in Mayo and North American as a sensor of the steam of the sensor in the

In reducers, of these the process of the contention of the Content

beautiful and the off the observation of the observ

The control of the co

audo. Bonness usey are not note to provint it?—Yes.

I know some people shout my place and they don't
have a tink of selfs for their tes.

27994. And the unfortunate infants are often given
tes to drink?—Yes.

would be no use, because the new selling the animal would know nothing shout the televosite test. 27023. We get evidence accurations of a parson usi-ing and gotting a certificate with the bull?—A good many persons in the Dubbe Show out that the bulls 10ffe?-A little. 27307. The CRUBNAN,-I suppose one cow would be the most that the majority of them would keep?— Those that would keep one oow they might somemany persons as the total of the supplication of the tuber-cells fast has not been fashed on by the County Com-mittee in May 2—30. times keen two, but they would be had, and the two would, unfortunately, run dry begither.
27856. So that the keeping of two cows does not always releave the auxility—No. Besides, the cows are not good. They have them from 16e, to 50u.—34b. mittee in Mayo?—No.
20025, Mr. O'Banes.—Don't you think it should be? I think very few of the young premium bulls waffer now a men have a core for \$4, or \$4. 27500. Mr. O'Barrot.-What did he do with them! 2006. You think when they get inherenbook that they negate is afterwards when going with a class of Sent them off to Gingow. He knops them for a few or perhaps they would die an it's hand ostile strondy indected?-You 27000. Dr. Monuman,-Those are piners?-You 27027. The CHARMAN,-I take is that there are not Philit. The Criticists.—I take it that there are not incur people in your leadily expectating with the more people in your leadily expectating with the incur people in your leading expectation of the people of th ould beely call then practs.
27001. The Chuman,—Would they be always slike walk house from the fair?—They can teavel very well, some of them. 4-60, some on sects. 2799Ω. That is their strong point?—Yes. 27603. These would be dealers who would key them? —Yes. The poor people activate the back doop of milk from them, and when the dealers get thom they are postedly posted on as talerculous on the other side. They are somewhat into suranges, I suppose. 27036. It is very disquisting from this point of view —that they see used by those people as long as they can keep them, soil they are sold only when they are on the point of dissolution!—Yes. 27520, Who I think 27600. The milk produced by come to that state scold neither by healthy or mourishing?-No; then 27661. Bootses I rather think that the Agricultural would be my opinion. Enstructors were given orders from besignariors to be on the book-aut for may heavy-milling cost 1.-The would be my opinion.

\$7000. Do mainy of these relat?—A good many.

\$7007. Would you say that at a fair you would gobball-a-dense of them?—You could got a dence. Department's Impectors know the now well. They give the set were the set of t 27000. What type would they be—would they be of the Galloway cross?—They would be of every breed. There is very little of the Galloway blood uper in the act as Inspection. Act mays a tent mappewer for con-usinght, and an assistant Inspector also. 27600. The Agricultural Instructor who note as In-spector does not inspect the delining—No. The Abredses Angus is the most common the Galloways were condensed in Mayo about ten years ago.
27000. Was it because of their depreciation of the put in force in milk yield that they were rendered unpopular?—No. 27650. For what other case?—The Eaclash feeler present.

2005. What is your rural district—Killala.
2005. And no Yeterinary Impeder has been uproled in that district to he?—Xo.
roled in that district to he?—Xo. condemned them more or less. These my very log grass receives about North Mayo, and those people baying Galloway cattle and sending three sway to England were disappointed unit them, and the people did not tor hom favoreship discussed or otherwise?-The 27611. Az And the result was that they cessed to be countrymen don't understand it.
27698. Are you in favour of 167—I think it would be bred"—yes.
27613. Am there a sufficient manaber of cares available of a braiding, suitable stamp, if these were proper heils to make with them 9—Tes; but not a lot.
27648. Unless something in done in the near future From All you in the own of the American substitute a good like.

2000 In it year opinion that the milk is substitute in the bonnest—It is not.

2000. And there is much room for improvement in to improve the mili-yielding properties of the cov. that respect?-Yes. 27641. What became of the ceives of your one that gove that the yield?—I sold some of them. I have 2761s. Is that realized by the people who keep these cores?—They are always correlated. or of then cornel—They are always correlatining.
270.5. Has may representation over been made to
the representative of the Dipartiment or to the Con-creted Districts Beard as Associated with the Con-trype of cattle cost time the "to-diffyr—Set in that dis-trict, suspet as cognite the Guiloway ball.
2705. Does Mr. Galleger with the local committee.

"Me..." "" 27642. Did you keep any of the bull calves?—Yes, 27048. What did you get for them?—£20 apiece at three meeths old, three meetins old.

77844. You are keeping on the cow?-Me. I sold
Se cow that gave the heavy yield because I get dis-gusted with the Department, as it seemed to me that

27021. If you were going to a fair to buy a buil or a cow, would you sak to have the sainad basted?—It would be no use, because the man selling the sainad

they did not want to improve the cettle in Ire. 22845, 1

would be serry to believe that?-They

Mr. Janes O'Borra-Sth August, 1915.

27006. Dr.

27703. And I suppose one sees o great many speci-mens of wasted and decepts children?—Nos as many

would expect.

5. Dr. Meccanup. Do they use any conferred

refused me. 2544. Helpsed whath—To give use a sharshorn buil 2544. Helpsed whath—To give use a sharshorn buil wide a premium. I had an absolous Argus in my middle and the sharshorn building the sharshorn bu breeding. 27619. The cattle are really more corrected to the well-being of the public at large, from the health point of view, than the become?—Tes. 27548. And the not result was that you thought you 27000. Hr. O'Burs.—If you were to get selected bells supplied by the Department from a militing strain would you advecate there also passing the tubercoalin test as being essential?—Yer: it would be a way good would not be firstly to make a profit—I could not get a pearstrain half of a milking state to send this over to, and it was no use crossing with an Aberdeen Angus. 27549. Mr. O'Benns.—Did you get a good price for

retused me.

27021. At present, I suppose, you naver board of the inferredit test being saled for in the fair if a man was purchasing a new?—No, very rarely. 27550. The Charment,—Was she a good type of our to look at?—No; but she was a real dairy cow—s mos.

SVET. And do the members of the Agricultural Com-nities make representation to bim?—No; because the

County Committee of Mayo would be nearly all abopkeepers or clergomen, who would not bother 27038. The chargemen coght to be familier with the needs and wants of the people?—They don't seem to take an interest in the cattle. They so in the horse-

in Mayo?-Yea.

Mr. JAMES O'BOYCE, 9th August, 1912. unfortunate part of the country I have spoken about. I think it would be well if a few pure-ired shorthorn

think is worse to been in a new passesses and built of a milling strain were placed in the district. 27607. In that all Mayo seems to used an infusion of new blood?—Yes; there is too much Aberdeen

Angers.
27t68. Dr. Mossman.—They don't go in for pro-

ducing store ortile?—They do.
27039. Would they prefer a store strain to a milk-ing strain?—You might have a milk buil that would ing straint—You might have a milk mit that woun be pool for both. 2 2000. If, for instance, they had a theorogh-head milk-stein bull, do you thank they would be teed from that—the Ayesteer, for example—They would not been bull of millions steam you would get good believe and the milk of the control of the control of the con-trol of the control of the control of the con-cept that the control of the control of the con-trol of the control of the control of the con-cept the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the control of the con-trol of the control of the control of the control of the con-trol of the control of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the control of the con-trol of the control of the control of the control of the con-trol of the control of the control of the control of the control of the con-trol of the control of

that would turn out to be good salking cows. I say a good shorthorn in Ballina Amiraitanal Show. She

27031. Is she a home-ired cow?-She is an old

27002. Had she the white streak about her hack?--

27063. Is that associated with the old Irish cow-

was a small osemal and she gave 48 lbs. of mile.

27631. Where did you get int?—She was bred by Mr. Fred McCormick, Summerbill. He lives in Dubliu. a strange thing about her dam was that the could hardly feed a call. Mr. McCoerrick bought the bull beam Mr. Crawbord. This was a pearsing bulk, and the corr was sent to burn, and she lad this briller call, and she turned out to be an exceptionally good militer; but she got awfully wicked, and had to be tied when niffeed. She always yielded britter that was the best and deepest colour. I have seen a good many seem to England and elsewhere, but I saw none to came up to

er. 27652. She was sold out of the country?—Yes; she was a bend-hook oom was a homeone own.
This And with her milk record she would naturally
engented a good price?—Tes.
2014. How many calves did you sell from her as
high?—Top. They were off a pure-hard sheethorn.

halls?-Two. Thay were off a pure-bred shorthorn, but not of a militing strain, and they were not wellshaped.

2005. But the fact of their being the produce of a
new with such a milk record increased their price?—

It dot.

7056. Is there any other suggestion, Mr. O'Boyle,
that you withink would be in any way kelpful to the
Commission?—Unless you would suggest to the
Department of Agriculture to do scoretifing for this the dull red oow with the white strenk down her back?—Yes. The Commission then adjourned to Killybeys this Monday, 12th August, 1912.

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Irish core

FORTY-EIGHTH DAY .- MONDAY, 12ve AUGUST, 1912.

The Commissioners met at the Forestern' Hatl, Killybers, at 2.45 p.m. Present :-- P. J. O'Nume, Esq. (Chairman); Lady Everard; Miss Margarity McNull.; DERMOD O'BRIEN, Esq.

Mr. HICKARL McNutts, J.P., exacoland-27694. The Chamman,—I understand you are Clerk
of the Glantice Eural District Council, Mr. McNalis !—
Eds. Str. es, Sir.

2565. How long have you occupied that position!—
'e twelve and a held years.

2565. Would you kindly stell the Commission what
normalize has been made by your Council to put into
once the provisions of the Dairies and Cowsheds

force the provisions of the Dairies and Cowsheds Order!—The Order has been put into force since Petersylast.
Stell Wast officers have been appointed?—These \$7008. Low or voterinary?-Lay; three sunitary subofficers have been successful inspectors. 17000. Have my reports here received from these officers since they were appointed?—Xes.
27010. What would be the nature of the reports sent in?—On the whole, they have been favourable. were not—one the whole, they have been favourement. The people have been enrying set the naturations. 2001. Have they lodged any complaints as to how the lyres were kept?—No auricus complaints. There were some complaints about whitewaining, but that

sitenced to afterwards. 27072. Have the suspectors reported that they have been able to get the improvements carried out that were necessary?-Yes. 27673. And no compleint has swer been made that the con-longers were obdurate and refused to early out see convenience regarded to see remand to compose the improvements regarded to the first the first than 10 been contemplated to appoint a valuatory improved the Wall, the Local Government-pend did not maint upon it in our Union, on account

there heing no vetermery surgeon resident in our 27675. And if the appointment were made, a person rould have to be imported?—Yes 27676. Have you voterinary disparanton born!-Yes.

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S. W. STRANGE, Req., Secretary. 27677. Where does the veterinary surgeon reside who attends these?-One lives at Doncesi, scotter in Strutene, and mother at Fabornagh.

20028. In Dongel they have a veterinary inspector?—Yes. 27079. For what period has he been appelished?— For twelve months.
27080. When was the Order put into force?— About three years ugo.
27081. In there a correlty of milk emonget the people.

NYMM. In human scanning of milk amongst his people.

20183. At what periods of the years—Peratedly investigated the conflict year in period iii, is the Nartisers pecitions of the Oitsaless Union and in the Nartisers pecitions of the Oitsaless Union and in the Nartisers pecitions of the Oitsaless Union and in the Nartisers pecitions of the Oitsaless Union and in the Nartisers pecition of the Oitsaless Union and in the Nartisers pecition of the Oitsaless Union and III the narial state these have small pointees of Lead of Union route—North All of them.

270846. Each or you Magnitury Debetoms in your route. Here you is Magnitury Debetoms in your district?-Yes. 27691. And they go away in the spring and remain until the setumn?—Non.

great. By whom is the work carried on in their sharper?--By the women or the boys or girls that reggain at home. 27688. What size holdings would be the average in one Union?-About #2 4s. in valuation would be the general average.

27099. And that would represent from three to five or seven serve, according to the quality 5-Yes, about 27600. Would they have the means of kauping a cow on that land if they were sale to buy one?—Yes, they

would.

No. Spreach, Philips.—This deput, "High a could be for them to be for a count of the count of th

2008. Yet my there is a necessity of mall all the pair county-T-ce, in parts of the Union.

2006. Let us a reach there than the children we not consider the construction of the Color of the district.

2007. Does this country provail to a greater codes in the porce, lessibly then in the batter-is-de 2007s. In the construction of the Color of the 2008s. In three a specialty in the other district when the load in better—New.

beaulians—It does not corose.

2006. In survey a sparsity in the other district whose
2006. He mixes a sparsity in the other district whose
2006. Mike is always available three?—Tes.
2009. Mike is always available three?—Tes.
2009. Mike who would be seen that the corosine of the corosi

power-car, in first?—i.e. Tarco see adds of the best poors, revery will.

2702, That is a particularly difficult aces to deed to the control of the control

The control of the co

Notice Andrew met much tax on the frame-park?—
Notice Andrew met much tax on the frame-park.
Notice Andrew Congress, that we have been cled that shower they have been precisionly used and the shower that th

sighten or nicotene oven biriself. He started a dairy at Brownspay.

I B

27710. To what come was his change of management attributed?—I dea't leave.
27717. It would not be for wont of on operation from the people resistent in the littletis—do they approciate the will so it milk:—Yes.
27718. What price was sharped for it?—10d. a pillon.

dairy?-I think so,

22750. Here you say information as to how many core would be they by these who have define suggesterned by the commercial controlled. The number would have increased by the number that distribution.

The property of the controlled by the commercial controlled by the commercial controlled by the commercial controlled by the commercial controlled by the controled by the controlled by the controlled by the controlled by the c

allateful in which there is on cross bourdey of uniftion the state one to which you have referred—Mr. I for the state one to which you have referred—Mr. I 2702. Have you may have hope to the Design real district and how they stated from this point of visor—No, campel of the part that from the point of visor—No, campel of the part that from our own 27700. They condition as shown the same as yount— No. 7. They have all fieldly legals from.

27700. Lee may more province to saw; in all the 277100. Are those many laborouse residing in the district where the forms are large?—They reside once the term.
27700. Where the they get their supply?—La the 27700. Where the they get their supply?—La the 27700. Where the man under wide of giving milt as spart of wager where a man under wide to temper?—In or example of the content.—No, they have to 27700. It is not the content.—No, they have to 27700. Would they self milk if the laborouse

\$7768. Would they self milk if the histories begins in T.-Xir. on corresponds in the comply-time property of the property of t

\$7764. Has the inteologists of the occuming but option on milit supply to the working popular to yet offers on his milit supply to the working popular to the property of the

georgisty, organize user women to an insurance to one people to wend their mile to them. In the people of the district of home further-making excised on in your district. Shows the people of the people of the people 37753. Do they use the expected or set the cream?— They set the common of the people of the people of the STOS of the common of the people of the people of the STOS of the people of the could to the people of the STOS of the people of the could to the people of the STOS of the people of the could to the people of the

They set the consum.

277-54. When de they sell-it—Unsuity in abuye in Killylogs, Donegal, and the ensuit forces account.

Killylogs, Donegal, and the ensuit forces account.

The Food and Drugs Enspector in your districts?—

Not that I have seen in this district.

277-18. Does your Countil inside on registration?—

277-18. Does your Countil inside on registration?—

278-19. The countil of the possible of the selling milk promote to meall, are registrated in your become,

no mottle how meall, are registrated in your become.

Mr. Marston, M'Nuns,-12th Award, 1912.

27794. Does the condition of things existing in this lecelity call for any radical change or remody, do you think?—No, except in the registration of the dairies and constitute; every person leeping a con should be

registered.

27795. You would extend the registration to all persons because cover—Yes. 27706. In order to ozenou that the cown would be kept in good condition, and that the core would be kept in good condition, and that the persons would be execul in the headiles of the milk and in breaks to clean and healthy 5—Lee. 27707. What numbers are registered in that district?—

35

\$1708. Have you over had prosecutions against people who failed to register?—No; they have been

25709. And has that been found sufficient?—Yes. 25700. They are than registered at once?—Yes.

STOOL De the officers was have appointed report from umn to time that they find certain people whem they do not find registered selling milk?—They do. STOOL De you believe at the persent time that the registration extends to very nearly oil, if not all, those angaged in the said of milk?—Tes. STOOL We there can write shape in the town?—No. STOOL Windows wall it so del is carted serond?—If

is not corted about KSEybegs. Glenties is the only town where it is telent round. In the other those the

people have to go to the farmer for the milk then require. 27765. What price is charged, do you know?-2d

27:00. With press to compose and \$10.0 or open.
27:00. In this price increased in the winter \$1.1 don't think they make very much difference, as a green role, all through the district.
27:07. Are any samples of milk ever tested for \$1.00.0 dot 1 know. Of occurse, we have

adulteration?-Not that I know. Of course, we have seen cases in the Glouties, but not outside it.

Ellyhage?—Yes.

r così offrace. 27714. Have v

behitsails are very poor.

nok

might.

diture !- Yes.

27768. Is there a Food and Drugs Inspector in

27709. A monitor of the Constability?—Yes, 27770. Does be seen take samples of nellt?—I san

a aware. 2077]. You have never heard of proscoutions being instituted by him?-Not in Killyhers, but I have in

27772. And were substantial fines imposed?—Yes. 27773. What weelf they amount to?—About 80c.

One hundred and twenty eight milk-selices 27708. In the remoter of militariless increasing?— Yes. In the beginning they had an antiquity against registration, fairing a whole let of expanditure. eers were supplying milk as on ellinement their acquisions and not as a matter of profit 27190. Have join known any person to already the selling of milk in consequence of registration being

usting of this in consequence or regimence using outforced?—I have been told of it. \$1900. When they realized what dottes the Order imposed on them, this they again take up the sale?— 27801. They were rother seared at the beginning?-57802. And when they found the conditions imposed

were not too executing, they resumed the tende?—Yes. \$7805. So far an you know, the Order has not been spensible for any limitation of the milk appely?-27804. When things settled down and the cow-17694. When range netting about him one con-logorer realized what the Order really imposed, they resumed their coll contemp.—Xen. 27805. What member of cores would be the average of these registered with you?—About three or four.

29716. Here parties ever them presented a scound time?—Not the same parties. 27716. Do you think that has a wholescens effect in urcouries the sale of urce mills?—I think to. 27805. From one to five or seven cowe?-Yes. Some come would be the most, and there would be very few who would have seven.
\$7007. Would those who contract for the samply of 27776. Do you think is there an obvices injury deno unife to a laurital or a rubble institution lose more?-

to the child population in this district by reason of their having hinlted milk food?—Not except in that particular district I have mentioned where the in-2506. How is the workbrene supplied; is it from a number of small one confining together, or from one man who keeps a sufficient number of cowe to supply the contract—It is from two or three combined ones. The workbrene up to the present keep negations are very poor.

27777. It is porcety more than anything else that
deprives them of their supply?—Powerty, and the
difficulty of getting it, and the difficulty of transit in
result to the food for the cattle.

tight powe of their own 27809. They had no difficulty in getting a surely !-2777R Do there migratory labourers bring home a substantial sum with them?—Yes. The preventing pustice is that they get their supplies from May to Ottober and them they discharge their Stabilities.

No.

27830. Where is the lensitio asylom for this secondy?—In Letterkomy. Thay keep cows of their own and pek a wayly from the neighboring farmers:

27811. They suppose their supply by taking milk on perinsul?—The from a picking farmers.

27812. Would it be your options that some nexts. 27729. Have you over heard of one of those buying a cow on the accommendated sarsings. -- Yes. acre on the accemental samings—Xes. 27786, Is that a common things—Xes. 27781. They are enabled to get a cow by that means sometimes?—Xes. 27750. And if this ow goes out of profit, is she bl. and do they secure souther?—Sometimes.

stock Norms is so your opnore that some months should be provided for schroning annual locus for the purpose of purchasing cowe in poor districts—Zec. 27612. Do you heak that would be an executing condition in code to ensure an adequate uppty of multy—Xec. I think its rould be very useful. 27816. Here you ever howen emil farmers to borrow money from the joint stock baries for the propose of buying count—lies. 27815. 210 or 212, so the case may be?—They

27785. Are they kept wild on the securitain side, or as a source of milk supply?—They are kept wild on te mecatains.

22786. And not unified at all regularly?—There

27818. All or All, as the case may be?—That you'd not require to much.

27810. There you may information at the you'd not require the arms of the process of the process with your may information as to what the bounded and thiy gallons in the you.

27810. They have you have you'd not not to have a second to be hourd to fact you'd course, I am out balling of the cown in the small lookings.

27810. They have got to be considered?—You was the process of th might be an occurrent one that works whereas whereas the agriculty.

27987. Have you thought of any solvens whereas whereas whereas whereas when a contract of the difficulty that solves in this locality, to which you wish to discret our attention, may be remodified, and only selected that would be the soluble for the soluble with the district would be the resulting of a distript on the line of the ones started by Major General, and provide milk to one started by Major General, and provide milk

27800. Is that poor district to which you have been referring sold under the Land Acts?—The Congusted Districts Board are negotiating about the sale.

25821. Do they advence losses to enable people to 27822. Do they advance morey for the purpose of approving the cow hyres?—Under the Parish Com-

27180. Do you think that would be a proper expenunproving an cow hyresy-Under the Perist mittee they give prizes of £0 to provide deiries. 27025. That is the principal development in which my are engaged at the memoral?—Yes.

27824. They have paid no heed whatever to the ordinion of the cor-byres, so for?—If a men im-cover his byre is in included order the General In-

the discountier price.

27184. Would you be in favore of subsidising a savingson if the undertook to posside a certain supply of milk all the year round?—Not. 27790. Have you ever heard of persons being cedered rullic diet and being unable to procure it?—I have 27791. That is in the pocers locality?—Ten. 27792. But it would not occur in the better part of

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the district?-No; is world not occur in this part of

27796. The moods would be sufficiently mot hero?-

sold, and do they socure snather?—communes. 27780. And sometimes when they pust with the cow they don't replace her?—No.

27784. Do they keep say gosts in this region?-

27828. Has that scheme led to much improvement in this particular branch?—Tee. The only thing is that that subsidy for the deiry is not taken up sufficiently, because people tilink that the 48 is too 27695. They don't think it passible to error on independent building for that sum?—No. If they got shoot AT or AB it would possibly induce them to do so.

. Morean, M'Neur.-19th August, 1919.

27827. And they are supposed to supplement this arount Ano tury are supposed to augitment this amount by sems expenditure of their own2—Xes.

27808. Do the Congested Districts Barrd supply them with a plan for the husbling they desire to have exceed?—Yes. 27009. And it must conform with that plan?—Yes. 27000. The advance made would only must shoul one-third the cost?—It would not most even one-third.

27881. One fourth, or even loss?-Yes, less than onefourth.

fourth.

27882. De they give advances for any other purpose
than that—No; they give no other advance for any
other purpose. Of ecouse, the Department of Agricelleure gives advances for fishing and note.
27888. That is under a different hard not under a
27884. Has it ever been suggested that the mift
are the purpose of the state of the second to the control of the second to th supply has been the source of an outbreak of disease?-

27835. How long ago?—About five years ago typhus fever was teamable to it. 27836. Illness broks out in a family supplying the

27630, hittons are milk?—Yes. 27637. Was any solion taken to suspend the sup-27687. Was any solion taken to suspend the sur-phy?—The people abstracted it themselves. 27868. Was that a recognition of the danger that might arise from the agreed of the infection?—The

public found it out and stopped buying the smilk from this particular place 27500 The purchasers shandoned trading with

2050. The purchasers shouldness teating wan-hamin-Yea. 2000. But outliers it reads considerable dimen-ciant-No. 18 was received to three or four families. 2001. Do your impaction ever repert that key conflict the should be able to the order of the teather conflict per and the should be able to the state of the 2001. Year know that under the provisions of the 2001. The accordant to look into that inventible. Order they are empowered to look into that hysoch?-27865. But no reports have been pensuated to the Council to regard to that?—The reports that have been pensented have been all favourable to that

respect.
27844. Is there much mortelity amongst stock in in district?—No. 27845. You don't hear of many losses from tuberculous cows?-No. \$7846. Or from abortion?-No. 27847. The stock are healthy generally?—Yes.
27848. It is the cross-bood shat is kept in the pocear
consists—a cross between a shorthorn and a Kerry?—

or a Dexter. Nos, or a Dexter.

27948. You have beard no completints of the pro-duce of the Calibrary built from the milk point of view?—No. J. have not.

57050, Well, J. son sdraid the question must not have been inquired into vary closely, begaven is to quite a recognized thing that these builts are intrinsed.

gints a recognized throug that these balls are inimized to the deriving reoperty of the cow, and in Consensus we were feld that the milk was almost beed out of the atomic by the introduction of this buil. The farmers don't was their own halften at all 2—No.

The Charmen.-You are a rendered in the Glenkles District "-Xes, sir 27885. How far do you live from the Glerbleyt. T

27895. Are you a member of the local board there?-Yes. 25997. Have you say difficulty in getsing a milk surply for the Onion-T-No difficulty.
27989. It have any society of the product of the

27851. Possibly that might account for the absence of the complaint—Lie. 27852. What broad of bulls are given by the Depart-ment?—Searly all shorthorn and Aberdon Angus.— 27863. Do the people like the Mexidem Angus?— 106.
37034. Why?—The stock sell well.
27035. And sell seply?—Yes.
27040. And sell seply?—Yes.
27040. The short-hers seems to be conting more info favour.
27047. Where do the people buy his cown when they

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need them?—From one part of the county to caother. 27850. In taken?—Yes. 27850. In the National Congressed?—Yes. present.

27861. Of course, one sees quite good stock in some parts of the county, but that is whose the lead is 27862 Ledy Evenan.—Is the old dash-churn still used in your district?—Yes. 27885. Therefore, buttermilk is for sale?—There is only a little of it seld. The people large is for their What is used for bread-making?-Yeast

27816. Is sliesbout used for shildren shoot hees?-27805. And they get milk to drink with it?—Yes, 27807. In home-beloing resorted to more than the services of below's brend?—No; of late yours baker's read in more resorted to. 27808. Is there much tea-drinking hare?—Yes. 27809. Are the shildren fed on it?—Partly. 27870. They don't get as much milk as they should?

—I suppose act. 27871. Have you got a District Nurse?—Yes; we have one in Obscoclumbrific said Armsmore. 27872. You have not got one in Killybegs?—No; we have a Maternity Nurse there. 27873. Would you advocate goats heliag loop by the cottagers?—You. They would be useful where mile is scarce. They would be very useful to the labourers. 27874. Would it not be well if they had the new breef of geste, that lid at all fitnes, and kept to geste one helding in May and mather in November? —I think that it would be a great advantage to import

that breed into this district. 2797.5. Mr. O'Brans.—Xou eay in your pricks of ovi-dence that one difficulty is want of bands to provide a now?—Yes. 27875. Are there my co-operative credit societies in this locality!—There is a sort of lean bank here. 27877. A sort of co-operative can?—I don't think so. 27878. On the west coast, and in the congested dis-tricts, there is a number of these co-operative credit ericts, macre in a missioner or seen, noniethes to which the Department supplies funds to a certain extent to etset them, and they get zonall deposits

certain extent to takes them, and they get must depose a which are included in the recognizing date of interest, and those would halp possible—They had one in Killyberg, the contract of the contract of the contract of the 1878. Do not be the contract of milk at all?—I don't think so.

27882. He a yooc person went and asked for a pint or
a quart of milk, would they get it?—I don't filink so.

27880. Do you know if it has ever been tried?—I am
not sure. I don't appear it would be.

Mr. Bressen Gallagers exercined.

27800. None at all?-Source!s 27801. And the people have to get on as best they one without in?-Yes. milk in winter.

2002. If they had money to buy, they could not get it 5-No.

27894. Is condensed milk used?—You, to a small 27804. Is commensus mist uses?—Ich, so a serial stems. It is sold in the shops along the emboard. 27805. In these much tends in it?—Not much; it is teo dear for the poorer population,

Mr. Rengano Gallagum,-Ifth August, 1913

27622. Are they fisher numerous in that locality-what you call the old Irish cox?—They are. There 27807. They weeks make a struggle to buy it, although they are not over-weaking. I reppose?—They are no black cows at all kept. There might be an 27808. Are they improving so time goes out-The 20000 Are used algorithm in time goes 607—7306 Congrested Districts Board got some beats for them, and they are a little better off. 27890. No offort was ever made by the Congressed Districts Board to deal with this quantion in the fishing

Bisincisi Police to use a west take question as one assume hardets?—Not then I know of.

27000. You know the destrict to which Mr. McSichia has referred—the Bosses district?—Yas; I do. poor there.

27896. Would the fishing population in the hamlets along the coast be able to buy milk if it were promu-able?...I deresty that would make a big struggle to

get milk, especially for the children.
27897. They would make a six

lund is pose there. 27003. And the farmers are pose?—You need not salt them farmers if you den't like. 27022. They have little patches of land, and go to England or Spothand for the harvest?—You. They syrings from five to cight name of moles-resisting of land between rocks, and to cell them farmers would be

e utilization.

\$5000. Do they keep any live stock at all, these peciels—Thry generally keep some.

\$7000. A pony—Yes; they generally keep a pony, because terr is a long distance away and they want to the tells one word from the shader to the bead.

\$5000. They gove potators and outs?—Yes. A \$5000. Buy grow potators and they compelled about Negative and they compelled about Negative at the state of the shade about Negative at the state of the back about November or December 27008. Their families are supplied out of the little

27002. Their families are supplied out of the little slope while the breshands are away, and when they come beare they pay sixtle accounts?—Xer; than it wist generally stappene. 27927. Went our they bring home if they are looky and heve a good season?—280 to 21th. 22002. Not more than that?—I don't think on. I are not accounty supplied. age not exactly year. In a had season they would have and not exactly were. An a not become using some mentioning to being back. The fishing has not been very recommending in the Bouses district for a number of years. It is not the only poor part of the Ghotian Unico. I have parts of this district evous here—Kliser, tent makes from here, said right into Gleubend, when the namely large warmed by the meaning of milk freen distribution.

Elizar, sen miles from here, sed right into ununeau, where the people have no supply of mile from Ostober to March. That also applies draw almost to Gwedore, owner. The von farm yourself?—Very Ettle. where the penyer and the period from a more period of the period of the

part of the opening, and the furners get these carly for the restlet, said there are good prices. Their supply of r sale. 37911. The introduction of this breed has aftered the industry to a certain extent, and less dainying in \$7912. And more attention is directed to store stock?

Tritle. Because they realise more from the sale of three sattle, and it brings in mecany quicker than the railing of milk woodly—I deressy that is the reason. 3704. These cattle see more reguly sold than any sattle that have been thisree introduced—Xes, it has improved them from that point of view, but not from the milk point of view. From the muit posts or new. 27915. It has altered the economic condition with regard to the stock lept, and it has learned the milk supply?—Yes, it has spoiled the milk supply, because

the old sattle were better milkers 20016. In there any specimen of the old Irish copy to be tree nows Yes; in Imphoren and in o our district. 20027. Would you tell us what the old Irish cow is like?—I cannot very well describe her. She is yellow

or white, and has a fair share of horns. 27918. With a white streak on the back and a white mark on the body !-- Yes.

27919. The offspring of those cows with the black bull would not preserve the characteristics of the Irash cow?—They are all black. 27920. How is the old Irish now perpetuated now-that is what I want to know?-. Usually when our farees want core, they go to one of the shortkorn bells,

occasional black our kept, but they are not milic-pro-27024. Is the Gulloway bull med in the lesslity as well so the Aberdeen August-I examp say; I could not describe the Gullowsy bull. 25925. Would the families of these migratory away !-- I don's think so. They might have a little in situmer kape

27021. They don't use the Abredeen Angua then?lot for that purpose.

27922. They use the shorthern for the milk?—Yes.

27925. Mr. McNells spoke of a dairy started by Major Gosselin?-Xes, by Major Gosselin. 27927. And other people were into the bude?--I cannol tell you; it is twenty miles from me.
20125. Then you cannot speed with much authority
see that 7-80. I should blink this why Mayor
Gossello week cel of the trade was because 3 450 not
pay him. I think the anyphy of milk down there

pay thin. I must the supply of milk owen unce-round be poor and sittle, and the milk?—I. 37029. What about the quality of the milk?—I. think there is plently of water in the county. 37040. Xon think the water is more plentiful than the milk?—Ven. I think the owe should not be put room the stream.
27861. There is a dauger from contact?—Yes.
27862. The stream might constince field its way into

the malk coun?-Yes, perhaps. 27168. Have any prosecut 27000 stare any processions on the the thereises for the adulteration of milk?—Yes; in the the thereises the Market and outside. I think the Davies wer been undertaken Workheuse, but not cettade. a mang Order is only in focce since February last. 27934. Are there many complaints of losses amongst stock in this district?—Yes; especially about Glenties there is a big loss.
25(65. What is the cause of the losses—teberralous

effection?-Yes, and merrain; and enother thing that is very much required in that we have not a veterinary in very much required in that we have one in Devokroesly. and another is thirty miles from Gienties. 27036, Why don't you apply to the Department?-been tried. 27937. I would advise you to repeat it; if you can show a good case ultimately you will succeed?—You. 27938. Would the farmers in this district be likely to avail of the services of a voterinary surgeon?—Yes

bry bave been crying out for it. 27800. They are not in favour of dealing with handy 27940. They much prefer profusional assistance?-Yas.

27941. Certainly that is a tribute to their intelligence.
Do you think the chalten in this locality setfer from
the absence of proper milk food?—I do, but not so
much in my corn profesche district.

27942. It is beling of the country generally?—Xos.

27943. It is to king of the country generally?—Xos.

27943. How for it is from here to dismins?—

Thirteen Inite miles by road.

27944. Do you blink that the children show visible effects of unabstirition and improper feeding—looking wasted, delicate, and sensite?—We have any smears of freels six, and only fix that there would be more illness. I blink the milk supply is one of the most inspectant things that any Government should like after. We note only

look after. You take unlik from the day you are born until you die. Some years ago, as Illicar, we had a famine amongst the people, and they had to ent son-27045. How long ago is that?—About twenty years ago. The district is a little inspoved now because there is some little industry carried on there. 27046. Is any industry carried on under the acts of the Congested Districts Boast's—They kelp the featurele, but still the people are poor. In the back-ward districts, where they fish, they are just as poor

as in the Rosses.
27947. Have they boats which enable them to follow the fish around the count?—Yes, but they are too small 27948. Have any motor bosts been supplied by the Board?—Yee, and space steamers.

27949. Are these owned by the people who had hitherto used small fishing boats?—It is only a trial. 21900. To see what will be the result of their labours? ir. Bancesto Gezanomm.—19th August, 1919.

27051. Here they had gratifying results so far?-If has been very fair, so for as I hear. has been very tur, so nor as a most. 2002. Are local men employed on these boats?— ery much all local men. There are two or those of Very nearly all local men-the captains local men-27958. Do you think that milk is appreciated as a feed in this locality; would the people use it more largely if it were more generally available?—They largely if it were notes generally arrantmer—and, would. I don't know so much about Killybey, het generally I believe they would. There is a big diff-nity for the forming close of people to get some to hav. The people who have a now or two during part

the year will have none themselves in the winter. 27954. You think it would be describle and necessary that some provinces should be unde whereby it would conside for these needs in very poor localities to ure milit at a food price?—I should think so, and should think hould think think would be a very useful work, a nork that would be appreciated by everybodywork. if the Government owns to the reserve of these people and subsidized people. The small furners, that would

give them pure milk.

S7935. You think that would be a wise and some assumistration of public funds?—Yes. I think it world be a very wise thing to insist that unspectors of foods and drugs should make thenough going earminstions more regularly than they do, and have preserttions. Another thing I Boos. Another using 1 manual very more more a name the term " water and milk," put on the vecsols, should be taken out of the Order slogether. 27808. Does that refer to waver milk?—Yes, to sweet 27937 I never heard that term before applied to evet milt?-Perhaps it is butter-milk.
27908 I think you will find that only applies to butter-milk! Perhaps so. tter-milk?—Femapa so. 2009. Ledy Evmann.—Thus you would assume of

all the by-products of milk-butter, above, and sides mills—being post makes the same rules and regulations as new milks—fee, the same rules and regulations as new milks—fee, the same rules one districts where people could not afferd to here cown. Durk you think game would be very valuable district.—Tax. 27961. Especially the new breed of goest that kid at any time of the year? - Yes.

2002. Don't you think it would be a valuable thing Event you came is wrome or a variable some to introduce this improved breed of goats into the dis-tract you speak of?—It would.

27900, It would be a blessing to the poor people?— 27084. What is the price of milk in your district?-

The Glenties contract price is 8jd. a palice is summer and field in the winner.

Thus, The Chartman, In it sold retail at the same ine b. It is. 27806. Mr. O'Barra, Could the farmers keep a nein well here in the winter; do they have any cowe that oalre in October and November and December?-Some do. Some on. 27907. How do they keep them—what do they feed them on?—On corb, or bay, and steaw. 27908. Steam from the stock without therefring it?— Lightly threshed.

27969. They don't grow may winter crops?-No. 27970. If they don't have may winter-milking count I suppose they keep their cuttle out as long as possible that would mean they would have a good deal less manure than if they had them to the benne?-Yes. They carmed keep the eattle as they used to do: they must have proper accommodation.

2071. They carnot keep them in the durlling.

bonner.—No.

SPOPE. You have known them to do that?—Yes.

27972. The Comman.—Are any even kept in the
dwelling-houses now?—I don't know of any is any own experience.
20974. Mr. O'Banox, ---We have had evidence that not only the cow, but the horse and the goet and everything else were kept in the houses.

27007. The Cantenan.—You see a resident of Killy-begs, Mr. O Byrne?—You size. 27008. And you are familiar with the villages on the green, and you are sensular from the valence of one costs lime?—Yes, from here to Giencolambbille, about thirty miles. In the other direction I can not so

amiliar with the country.

270744. The Cristmen.-That obtains to Consequenstally... Xes. It did exist here too. 2005. Mr. O'Burax...I suppose you have on agri-20075. Mr. O'Banss.—I suppose 700 larve on agri-cultural internoter bree; here you can under the Con-posted Districts Board and matter maker that Department of Agriculture—E-yes. 2008. Do they advocate the growing of crops for the whole-deading of catillo—erops like larrily greens, ter-sife and large—E-yes.

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27927. I suppose the people grow rys?-They grow very little rye. There is pienty of had that could be distributed. 27979. I suppose the Congressed Brakerts Bored is culturing the buildings by degrees?—Not in our district, 27979. The Chursan,—Ras three born no devision get your cake saved?—In September or the end of

August.
27361. What do you do with the stabble?—They let 27482. They turn on catalo to pack up may given stuffs-Yes, or peous. 27083. Do you know any place where they till the land ulses the cate get stocked and put down winter \$7084. Is as a nort of thing that can be done by the small farmers who have not got to hire lebour and our do it themescives, if they wish, and gree cold and green foods for their sows. One of the difficulties is even that where you provide a men with caccago had or a belower or small farmer who has enough to loop a con but has not enough to keep two or three cows, the cours all only at the same time, so that the sheetage milk is always there, in spite of their herrity a

of milk is arways there, as mainter of cours? That is no. inter or court-Time is no. 27805. They carried have them onlying in winter Tible, they estited care them in white?—No.
Tible, Union they are provide food without having
to ber it in the sleeps, I don't see how they can do that?-If they have land enough, they have the own and hav and steam, and they grow turnips and some 27187. Cristago, I thought, would require a lot of margare? Yes 27368. But I suppose it is principally scowed they vind manure if they don't name and —They have not the beads to house.

27900, And then they keep hardy cattle that will stand out on the billeide in the winter?-You. 27001. It is very hard to see how you can get a milk supply into the country if you manot get winter leeding?—That is it. I think the Government should setsidise manil people like babourers and small framers who are not shie to keep a con. 97092. If they have only one cove, they won't have the milk in the wlater. You might natist the larger farmer?—Yes, 27004. We found in certain districts we were in that where account odding was given to enable people to have come there was no binding rule on them to supply

milk, and as soon as they got the hard they did not supply a piot of milk to a neighbour?—Then I would not subsidise them. 2006. If you had any subtence of that seet, you would have to be careful about that point?—Xee: you would require supervision. You have the Dairies Order and we have other Acts. 2700c. We have plenty of Acts?—It would be a very good thing if what you say could be done. That would be about the only way to come at the backward dis-

People would buy cows if they had the mounty. Mr. Persons O'Brane examined.

27009. You know a good deal about the fishing population?-Tes. 28003. Have they a milk supply available?—They have sed they have not. We have no population here who make their living solely by the sea. They are a mixture of farmers and fishermen who have land and

Mr. Parsons O'Brasis.-19th August, 1919.

a now or two. I don't believe that in this parish there are a doorn without one one at least, and that holds in the other two partities also.

\$6001. That would be stong the coast line of which 28002. But notwithstanding the fact that they have one individual cow, there are certain periods of the one insurransa cow, there are certain persons of the year when they have no milk?—That is so; it applies to Killybegs as well as to the other villages along the shees. Milk is searce from December to April all over.

where. Milk is serve from December to Agel all over 19900s. And during that period some familiar per very libbs, or none at all — Well, I repose so. I sto one of time myself, fam whole, I repose so. I sto one of time myself, fam whole, I serve — Ten, and it has been very difficult recently. SPOKG is it a growing difficulty?—If this gow from the introduction of the Dirice before differ through the servery difficulty of the control of the control of the control of the period of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of t in the Order A number of people who sold unlik when

the Order first came out thought there were insurmountship difficulties, and they did not think of registering, and they would not register; and on the other hand, when they found out that those manufacturing butter while they loans our sant those maintenance owner as boths were not subject to inspection, they borned to selling higher, and those was certainly at that time

a caracity of milk.

2600s. An increased searcity owing to the provisions of the Order 7—Yes.

28007. Has that here. . Has that been gradually righting itself?-To a certain extent.

entain extens. 28008. Are there still many who formerly sold award lik who are now manufacturing butter?—Yes, in a fav instances.

\$6000. And none of these people who have a cothink of having one calving in the winter season to
supply themselves or their neighbours—I think it is

""" the best ways as the have in winter. It is

very rarely that cows calve here in winter. It is generally in April and May.

28010. That prevails in other districts as well?—

28010. That prevails in other disistots as well!— When a man has two or three cows he generally man-ages, if possible, to have one calving in winter, but if he has only one he cannot do so. 25011. A period?—No. single cow does not cover the entire printly—No. 24012. Have you any knowledge of what is the milk yield of the cows in this locality?—It varies. 25013. With the load, or the treatment, or both—With the load, or the treatment, or both—With the land, the teestment, and the breed. If was inquising yeaterday, and a sister of mine has a cow of the old breed whath milks treatly four quarts in the

20014. Is that the old Irish breed that Mr. Gallagher told us of?—I think so.

20015. Miss McNama.—Does she milk for a long penod?—For mm: or ten months. There are coveral

period — For him or ten notions after a terresa cover than only give ten or deven quintle a day. A gentleman tool me pretectary of a core that milked tensity-eight quote in a day. 28006. The Causmax.—Due does find these care that give a heavy supply for a limited period and then does off. The one that is usually found most resourcer-

tive is the cow that gives a steady flow for a longer period?—You patriol - 10s.

39507. As to the quality of the milk, do you think
the cost here yield nulk rich in hatter fat?—I doe't
timk they do, heaves they don't get the fool.

Positiky 75 per cent of the estite of this district are
fed solety on dry bay. Them is very little hand-feding. There are very little root cops grown here except

20038. Cathage is an excellent food for cettle?—Yes. 20039. But it is not grown to the extent of making it available for the dutry stoot?—No. 20020. There is no outch-excepting in this district?—

28021. We have found in districts as wild and blook as this that beguithi catch cops were grown rips for cating in April 2—That may be in some districts, but here there are shoep kept on the mountains, and there are no fences, and the sheep drop down in the winter

18022. Of course if there are these loops, and this femore are had, it is difficult to deal with that. It is possible if a fenced portion of the had were evaluable to till it is that particular way. Have you thought of any means whereby this difficulty about procuring milk could be most.—The difficulty, in any quistion, is not so great as you would (magine. In the country difficult is the place that the country difficult is the place that the is not empediagly source; \$2022. Of course if there are there kept, and the

the towns perhaps see the greater sufferers

20023. That is contrary to the view that has been put before us in other parts of the country, because we were took in a great many cases that in bowns it is always possible to secure milk, but that in the tempota rund district to in more difficult to go; in?— The Brighbours are very freedly to each other in the SPORE I don't quite knew from what cause, but the feet remains that where you have a contravel popula-tion it is very difficult to get a milk supply, surface the prople are willing to go four or five ratios for its— flore is no district here where the houses are no

39

sparse as that.
28035. The conditions are different in this county?— Yee, in this particular part of the county 25000. Here you told us that the searcity is more acute to the villages and towns than it is in the rural districts?—Naturally, homens 20 per cent of the people

in the towns don't keep any eattle, and in the country person been at least one cow. earn person neeps at rest one cow.

28537. One quits understands that the situation is entirely different in different parts of the country, but me surrouss to have information with regard to every portion of the country. It the searchy os could in the towns and villages in your estimation as to de-mans that some remedy should be applied?—Well, the

towns could use much more milk than they are using to may that they are in absolute want would be stretching it too fee, but in the winter scanon there is a good quantity of condensed milk sald. quality of conscious mass sam.

19028. A considerable trade is done in condensed
milks—Yes, and very often a person has to change
three times in the year from one milk supplier to

three times in wearscatcher. I have known of oness where a scatcher that the continuous
states three times.

29500. Because they each but get a continuous
supply from any one weaker 1-2cs of the stock kept
when the supply is not kept up during the winder
to a supply in and kept up during the winder

bown reddend*—Ics, sessor?—Yes. 19931. And that spolled to a town recident?—Tes, in the town of Killybegs.

1993). And and the property of the total of Kulykeys.

2002. Has much improvement taken place in the Saling population in your issociated of them?—That shaling population is your issociated. The fabrical population of the saling population of the would require two autwers also. The fishing population in not as large now as it used to be years spo. They have better facilities now-better basis and larger

26033. Are those engaged in the fishing at the pre-sent time making a better livelihood out of it than those who were engaged in it twenty years ago?—They are making on easter livelihood. 28054. Is there more money in it !—Yes, for the fish they catch, because if there is any pertion of the com-munity that the yellways have benefited it is the fisher-

monity that the rulleway have headfield in its the finances, by each ling them to get that fink to the reacher.

The state of the ruller and the ruller has been been deprived of their milk supply because of the inhibiting of those in change of them to proceed—I should say that in the working or proceed—I should say that in the working of the ruller has been as the ruller of the ruller has been as the ruller of the ruller of the ruller has been as the ruller of the ruller has been as the ruller of the ruller of the ruller has been as the ruller of the rulle and not money, but sometimes a person would rather

28003. A person may be in a position to key is, if it were possible to procure it for mosey?—Tee. 28007. And obviously that would be a more satisfac-tory way to have the milk available?—Tes. 19038. Mr. O'Barrat....In there a credit society in this district?......Three is what is known as an agraral-tural bank, of which I on chairman.

29090. In it co-operative?-Yes, in so far as the capital is subscribed locally.

capital is subsented itematy.

2004. You got no grant from the Department of Agriculture 7—No, nor from the Garguelle Districts Dougl. In a strainty assignment and advantagement of the Dougle of the Comparison of the Comparison of the Comparison Department of Agriculture 10 of the Comparison of the

running the bask on our own book with the lead capital subsectibed.

\$50.8. And the members are quite poor for the most part, and they depoint \$8 or \$64.7—There are concernment who have money invested, but I would not see that they are the powers. The power, of course, rather borrow than invest.

not get it at all that way.

Mr. Parmick O'Brices .- 12th August, 1912.

28044. They beerow for a stated purpose only, and the members of the committee see that they utilize it for that purpose?-The bank loons ore given only for se of buying stock the purpose or suying stoom.

28055. The Caraman,—Biltich cows would be in-cluded, of course?—Xes.

26046. Mr. O'Bennt.—Not fee buying nate and fal-ing teckle?—No; there is no difficulty now us the fishermen getting note, because the Congested Districts

all he has to do is to get two men to a small boot, all he has to do is to get two men to go security and agree to pay in installments. The finding in the larger class of boots is certical on on the share agreem. The Bond takes a cartain account. Board takes a certain percentage of the fish caught until the host is brught out. 20047. The CRAINANT.—That is the recognised system that is followed?-Yes.

28048. And it is frund to work satisfactorily?-The Seberman gote free parts and the Board gole four parts of every "take" of Seb. If a Seberman is Sebing on a smaller scale, and wants a best to fish for himself, he applies for a small lean for the encunt; be gets two scourities for it and pays by instalments. 18030. What can a fishermen make in a good

hunl?—From nothing to £160. 26051. In one day?—Yes. I had experience of one 20031. In one day?-Yes. I had experience or one boot that worst out ten works, every night, and the

ed only to £3 %. td. the end of the weaks she get a hash worth 4164.

28002. The CHINNAN.—Has the fishing been at all good this year—Hi has not been good. The makes good this year?—It has not been good. see the fitting. The disadvantage of the the earling boats is that emetimes they cannot get to the fishing grounds, and that if they get there they cannot mi heree sgain. A question has been put to one of the heros egalo. A question has been put to one of the winness about goets. There are one or two people here auxious to Leep goets. There is a labourer who hoops a goet which does not give a great quantity ive a great quentity would be anxious to some a good warm uses for give a good of milk and he told me shot he would be anxious to get a better close of good. I think this possibly if a good breed of goods were introduced they would be 28003. You think they would be helpful?-Yes

2805t. Lady Evrnan,-Would this men keep a billy 280%. Lady Evranan...-Would this man keep a billy out — Then are not peter enough in this district for hilly gost. I know of only two or three gosts in its perish. They are used for milk purpose, though, 280%. The CRAITMAN...--Are there many mountain goods in the mountain district?-Yes, further in-20058. The men neight communicate with the scoretary of the Good Society?-Yes; of course goals are year windiamon 28097. Mr. O'Barre.—If they are short-tothered ith a strop around their negles, they will do quite

2005R. The CHARRISH.-You are connected with the St. Columbs Industrial School?—Xes. 28668. Have you percohal experience as well?— Yes, for a number of years in Ardare and Giernelum-

fells. 2000. Neturally you are familiar with the classes-tances in which the people in year district lived— Yes. I was relead in the country: I can be seed a small frames, and know the conditions peetly oull. 1900.11 is there a exceetly only in the district with which you are most familiar?—In the winter and scales Once. We sering there is. 28562. An souts scercity?—Sometimes on saute 20000. Is it growing less, or is it greater than it was

28000. Is it growing less, or is it greater than it was when you were families with it first-1 is growing less in any opinion. Slightly more milk is excitable now. In any opinion the intullible remarky for increasing the supply is to feed the eather better. 28000. Do not think the bened of eathle in enterance are exitable for milk production 8—I think they are for this district.

18005. Miss McNena.—Have you your own cattle
at the telhools?—Yes.

18005. The CRAIMEN.—What breed here you \$5005. The CRAIMMAN.—base.
there?—They ees a mixed breed.
28007. How many do you keep?—Nice or ten,

2008. Do you keep any milk records?—No. 2008. Here you say information as to what the yield of a cow would be for the twelve meeks?—I never kept similaries and camest say. It would be 29070. How

2070. How long are you connected with the management of the schools — A little over three years. \$5071. Do you find much difficulty in getting good mich cows to buy when you require them?—There is some difficulty, but not so much 28072. Nothing insurmountable?—No. The first winter I had to tay two owns, and the second winter two cows, and the last winter none. We were able to heep up our supply ourselves. 28073. Do you give criticial teeding to the cattle in the winter econo?—We give them mangoids and

tunips. 28074. Do you ever give them pointoes?—Yes. 28076. Any mosis or calcs?—No.

\$8076. Have you been growing catch-crops for the winter feeding of your cettle?—We tried it hast year but it was rather a fallow. \$8077. What do you sow?-Vetchee, and repe, and clover, a mixture of seed.

29078. Mr. O'Bants.-Was that done under the instruction of the agricultural instructor?-It was. then there wast to be

Reverend Even M'Dwysa comined. 28079. The setual cowing?-You g?-You. very often think they are 2030). Because people very often think the cing to do it well and they may it too though his case is was she metrorier sowed it. V perci

sered the ground under his direction, but the seed second to have failed.

2808L The ORDINAN.—Did you give any settificial Short and sensors the suppose making a further experiment in catcher-propring No. 2c. 2003. It would be extremely useful in a county like this if the milk yield evoid be kept up in the

28084. Do you keep the old Irish breed of now?-Yes 28005. Do you think it is a distinctive type of suimui?—I don't know etcut that. I here no experi knowledge. It is the one I have been ecoustomed to all my Ris.

all my mo.

2006. In the same type of salmal with which you
were familiar as a boy still to be found in the country?

—Xes, the cedinary type of oow, and the polled ow -Yes, so well. as well.

20047. Here you any arparismo of the cross with
the polled cow?—The yield seems to be lighter in
quanty. Some of the crosses with black could give
sightly more milk, but the quality is lighter.

20059. The produce of the Aberdson Angus and a
cross-bod over—Zes.

man-bron con re-xes.

28090. Your experience is that the yield of milk
branier but the quality power?—Yes.

28090. Do you know contains of the Gallowey bull; s that generally used in your region?-No, the shortborn and the polled Angus are generally used.

20021. We all know that the Aberdeen Angus cross a extremely profitable for store cattle, but extremely set from the milk point of view5—Xes. 25092. You would 28092. You would not think that the pield of milk from a consu-bred Aberdson Angus cow would be so heavy as from the old Irish oper !- No. 28000. And do they milk for a shorter period?think that depends on the period.

28095. You can keep them going if you elimelste them?—Yea. Any ow that is well fed and the feed-ing kept up, will keep milking for a longer period. 28000. Very little provision is made by the farmers tor the production of root coppe?—It is intercasing STORY YEAR.

28006. In the county instructor advocating root production?-Yes. 18097. And has be met with a certain amount of co-operation and success?—Yes, from what I remem-ber as a bay. Then is a great deal more grown new ber an a bay.

\$5000. And one would be hopeful that this would holy in some degree, at all events, the milk supply?—
I would, and is, building it.
I would have been a second to be possible to the Commission has been diseased by Mr.
Mollar he referred to a poor diseased by Mr.
I would be commission has been diseased by Mr.
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I would be commissi

tion of milk in the winder sensor)—A number of them 18101. So this would indicate that they apprecise the value of milk as a food, and would dearing to have it available for their children—Unicontrolly.

Signo. Do you find a valuese of the children not being properly nourished?—Yes.

20103. Would you stribtthe this delicesy in some control of the children of the c

DRIME NO you and avanage of the enemes or their projects bourheds—Loss, delines in some darges, if not entirely no in themses, of unit are a control—I denote by the L. bears, of unit are a form different places.

255.9.1 I am and taking of your pupils, but of the children in the distinct of your pupils, but of the children in the distinct of how pupils, but of the children in the distinct of how pupils, but of the children in the distinct of how pupils, but of the public of the control of the children who pupils unit as always building. I know as boys a stock you ago, and were store, but of these are made and \$255.0 Course, breash beings who are

ago, into over store, which courses are not even year, and program of the program

perior, as more many people softering from ST-Acs. A here, known, quite a number of ferniles prestrictly \$20(0, Dr. mary returned Annedsorus who have contended the disease in the States come to this country. The have seen inten of there occuring them to dis-\$20(0, Dr. mary returned a conting them to dis-\$20(0, Dr. mary returned a conting them to the country.

—I have sets into of them coming insent to dar. SINGW. We have listed in other contribut has SINGW. We have listed in other contribut has SINGW. We have listed in the singular contribution of the singular contribution of the singular colors of singular colors of the singular colors of the furthy and decisional them: —I should not be singular colors of the singular colors of SINGW. The American set lind except when they find heric offices conveniently the procession to deposit them to the lead of their birth—They can do it imresidently after the person banks, but if he is a citizen and the singular colors of the singular colors of singular colors of the singular colors of singular colors of the singular colors of singular

mediately after the person hands, but if he is a citizen they cannot deport him.

2011. Many of them don't tele, out their naturalization papers—No.

2012. And they have no claim on the Government than?—No.

Stills Do you find that some children in your school see delicate A-quite a few of them are.

18114. It them any tendency to tuberculous effection—Net.

18115. Ghanduler swellings P—Net.

18115. Bane disease—Net.

STATE AND ADDRESS TO SERVICE AND ADDRESS TO SERVICE AND ADDRESS TO SERVICE AND ADDRESS TO SERVICE AND ADDRESS AND

good itsering — res. 25120. Are there many goests kept in your locality?— Yery few. I don't remember to have seen many shows the particular locality, but I remember as a boy quite a few being kept in Ghentles.

2012. Would the introduction of the new breed of

20121. Would the introduction of the new breed of goat be in any degree helpful, if the people took up the keeping of gest?—Yes. I think it would be helpful on the labourer's plots.

ful on the labourer's plots.

28122. They don't keep gosts as a role?—No.

28123. Nor count.—No.

28124. Do you know any of the compense of the labourers' contages who keep a new?—I connot say that I do.

28126. In some localities they do where the land is porticularly right .-- Whan I left Arrives the labourers were only being put into the cotteges then.

SHIPLE From do think that the introduction of goals and the control of the contro

Reverend Hous M'Dwrsz .-- 12th August, 1912.

the desirable of the treeges knowl, they come as profit which for the creditor than the ordinary link goats.

28.122. Are you ever obligal to lary milk for your model. Are you ever obligal to lary milk for your model. No, we have you the supply consolves. You make very well depend on any source of supply should be supply the supply and the supply of the control of the ferrees have you not supply and a supply should be supply that the critical supply and the ferrees have you not supply for the critical supply and the supply and the supply supply the supply supply

—Yes, but of model only high of a finished period?

—Yes, but of model only high of a finished period.

—Yes the corresponding on them.

Bills. West price in paid for the first hour; is it bills. West price in paid for the first hour;

Bills. West price in paid for the price in the paid of the

-Scoretimes. They are reviber light seriousle, and the besel is small and the horse solved and sharp, been as the state of the state of the state of the 2010. What pice would they make —15 would depend on the maket a sped date. An outliness of the coloring would fested from 28 to 2010. The state of the state of the state of the state asset them go up to 210 or 24.4. 2013. That does not seen a trincar price to pay for them if they are modestwice good military—Thay

50116. If there was a first credible, it would be possible for mall headablers to beyone for the perchans of a cow. Would that be highed in increasing the rumber of own kept by the sand darmess'—Yes, because these against hands, whenever they have been established, have been valided of for that pure been established, have been valided of for that pure high the sand that the period experience of these reports. I have no personal experience of these theorems of the person of

is one in Killybays.

29141 You ere not gette no familiar with the conditions provedling hear?—No.

20142 I. B. there a bank at Glensler?—I sam not 20142 I. B. there a bank at Glensler?—I sam not 29143. You don't know what petrosage it has marical?—I same it has been particalled.

20144 You don't know here particulated.

20144 You don't know much about creemery managements—So.

2016. In there any feeling that the extensives have been in any may repeatable for the find/taken is the milk supply?—I have hered that, not that the fermess and them all time milk, and that the continue cannot get milk. I have here in complaint close to Desrry. 2016. Did you hear it soil that the fermens sent 2016. Did you hear it soil that the fermens series 2017. It seems whichly unwise that instillance people should deprive their children of the heat fool it is possible to give them. 1-Zec. 2018. And they stupidly yeard mony on other fool

20149. In there much owiness portridge used?—Xea, his not so much as used to be. In my neither place, the not so much as used to be. In my neither place, here been unfilled; some firstly or fully years ago there were a large number of these units which have fallen into discars. 28100. One seen a large number of them going to right—I resentable distinctly as a boy the was only

used very selicon.

28151. Now it is on top always?—Yes.

28152. And they slew the leaves for hours?—Yes.

which is less nutritious?-Yes.

18153. And that is really a most injurious drivit for them to take?—It is.

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26154. We have also been told in other localities that they give infants up infraton of that kind?—Yes. by give it to everyone in the house. 20156. Ledy Evenien,—Evidence was given to us in Limerick by the local instructor as to the growing of

Revocend Hoon M'Dwars,-12th August, 1912.

catch crops, such as hardy greens, which were nown

Mr. Tuossa Munus cusmined.

19

The CHARGEAN,-You are a resident in Killylegs?-Yes, in the neighbourhood, shout three miles the town. 28187. Are you interested in agriculture?-Yes, I have been at it all my life.

28158. Do you go in for deleying at ski?-Well no; not very much. 38199. Cally what your require for your own house-hold?—I have a little more at some seasons of the 38160. Do you sell new milk, or convert it into hotter?—The woman manage to get it channel shi sell

18161. In there mills available for the weeking norms. lation in your locality?—Well, in the summer season I may say all of them have a sufficient supply of mile, and a number of them have more than they require.

18162. That would be from May to November 1—Yes,
or from May on to Christman, but from that on, during

the spring and until May again, it is generally source. 28168. Is fast because the people do not strange to have cove calving in that assum of the year?... That is abort the messing of it. Some may purchase a row who can afford it, and have food for it, and tome can-

có do ibist. 58164. And they have to do without mile?—Yes. 58165. In there may extensive labour population in our locality?—Yes. Every farmer works on his own ind.

Sifes. I mean men having no lend and who live by
the own labour—there are not many such in your
agains—No, very few. There are members of the their own labour—there weinnt—No, very few. farmer's family and they take work.

\$3107. But there is no head of a family entirely
depending on labour?—No; not in my district.

Mass. Do they migrate to Scotland?-The young people go to America mostly. 28160. Do any of them go to England or Scotland for the harvest. No; a few of them go to the icen works in Glasgow.
28170. Do they remain continuously, or do they some home at the end of the buryest season? Some remain six mouths, and others for years.

sax incomes, and ornobe on years.

28171. Some of them settle down in \$coinsid?—Yes.

28172. With regard to the militing qualities of the
core, do you keep the old Trish core?—Yes, generally,

28178. Is that the one you keep yoursel?—Xes. 28174. Do you ever breed them?—Yes. There are sells in our digital that are supplied by the Congreted \$8275. Are they the Shorthorn or Aberdeen Angus?-Both kinds.

\$8176. Do you ever hered your own heifers—do you ever rear them to cows?—Yes. 28177. Do you ever keep for milk profuetion the produce of the Aberdeen August -No, we never bad a blick one. 28178. It is the cross of the Shorthern with the Irish

cow that you depend on to produce the bridge that will grow into the cow for milk?—Yes. 28179. Do you keep milk records?- No. 28190. What would be the yield of a now for twelve 28350. Wrate works on ma preid on a now life weare months?—It writes very much. I have seen cown that would milk for six mouths of the year twenty-door quarts a day. On the same grass I have seen cows that looked as good that would not milk half as much.

29331. Is the Irish broad you speak of a better milch cow than any you know of?...Yes. here and there.

28182. Are they available at several fairs? I believe ron would get them in almost every fair—an old one 20189. What colour are they?-Yellow is the principal colorer. 28184. A light red?-The cross-heed ones are arey. 28185. That would be a cross with the black buil?— No, hat the Shortborn, I think. 20106. That would be a roam; red and white mixed? 28387. Are the produce of the Shorthorn with the

in September. They got fifty tone of green folder to the acre off it. I think you might ask your agricul-turel instructor about the growing of these satch cupe, because you would find them modul for winter feed-

Irish cow as good mulkers as the original mother of the when you rear them to materity!-They are, generally speaking.

2018; Has the milk yield in your opinion diminished or improved?—I think is has rather improved.

or majourout.—A sumth it has retter impoured.
18180. That is gratifying, because we have been told in a variety of places that the still yield was steedily going down?—I don't think so.
28190. Are these any Gullows hells in this valid. 2019). Are these any Gallowey halls in this neigh-burhoot?—That is the black half? 2019. Ten?—There are more of than xow. 2019. They were introduced by the Congested Dis-thries Board in the early stages of their work?—There is one in this neighbourhood.

20120. Do my of the farmers keep the preduce of these bolls for dairy purposes?—I don't think so. Thay 20194. They sell very well as stores?—Yee.
20175. And that is why they are popular with the far-ner?—Yee, and because they are hardler in the winter

O'Berne,-Do you come from this is mediate neighborhood?-About two miles from the 28197. Do the farmers use seaweed so manage?-25100. Have they any farmyard measure at all?—They 28160. How do they get it?—The cettle are all housed in the winter time

accined in the wanter more. 22200. Keep long?—From November to May. 28200. What seet of bosses have thoy—are they a decent sort of bosses, are they not signed that their premises will be condenned if they sell milk?—Some of them may be, indeed, but they don't sell milk 20002. Are these cettle properly boused as a role?think they are housed all right. 18908. The Change No. 18008. Mr. O'BRIES.—You never saw my toberouloss estile bere 3-I don't think I did.

2025. No piners? None that I remember. 18000. Have the fermers farmyard manues?-Yee. 28207. And I suppose they can grow a certain amount of crops?—They use the manure for crops. 1920s. For cabbagen?-Yes, and for poistoes, and for top-dressing the meadows. 58909. The cattle in the winter are mostly fed on buy and a certain smooth of cet straw, with a certain smount of the gain left - Yes.

38210. Very few cows are timed to onlye in the winter?—Very few, has those who can alloud it manage winter — very new, has sense who can amoud it manage to have one salving in the winter when the others are going day. Some of the people caused manage that 18911. In it your experience that the cow that calves in the winter produce a larger quantity of milk during her period of laciation than the new calving in the spring?—That would deposit on how she is tensted. If she is well treated she would be hotter.

28012. And the calves would be healthier too?-Yes. 28015. Is there much mortality amongst the calvest —No. 28014. You don't suffer from white soons or black-log in this district?—Not lately. I renomber when I was a boy that only used to disregularly, but I think that they are helder tested new. Very few of them.

28215. Is there aboraton to any extent amongst the cettle-do they sling?-No.

Mr. Tuossa Menuo. -- 12th August, 1912.

48 20219. I doe't mean cheep sum on the mountain, but land that you could till if you wanted to?--Vary few of them have that much land that they could till. there is not there is not. 26217. One would gather that the mittle were generally healthy but not producing a large quantity of milk on the whole?—They see all believ enough, generally speaking, and where they have a good soil 2020. Be you cannot get one framer to go in for driving and supply the pright-outlood with milk?—I dereasy I would. I know a farmer who keeps cleves

of they have a fair quantity of milk too. A great deal of this part of Dengal is a poor soil, and that is the part for which it is most difficult to make any plan. for the supply of milk. 28218. It suppose in the poorer districts the farms are all very much the same sort of size; you would not get one farm of thirty or forty acres of decent land?— You would just some of them having more than that.

28216. There is no shortion amongst the cattle?-No,

was a great want in the neighbourheed they would goe milk if they would give The Commission then adjourned till the following day to Londonderry.

FORTY-NINTH DAY.-TUESDAY, 13th AUGUST, 1912.

The Commissioners met at the Guild Hall, Londonderry, at 10 o'clock, a.m. Present :- P. J. O'NEILL Reg. (Chairman): Lady Everand: Miss Margaret Moneill: Also. Wilson, Esq. : Durmon O'Brien, Rec. : and Professor A. E. Meytam, p.sc., p.r.o.v.s.

Reverend Jone Borns, P.P. exemined-28332. The CHARMAN,—Father Boyle, you are Parish Prior of Falcaragh?—Yes; locally called Cloghausely. Raymanizedowy Eart is the codestanted e of the parish. 28368 What sort of agricultural holdings are there in your locality?—They way in size from five to fifteen sores; in our parish we have 1,100 holdings, varying from five to fifteen sores, chiefly reclaimed fiftees varying from

bog. Two acres would be devoted to potators, our-ani-a-half to outs, half an acre to tuming and eabhages, and the balance consisting of moor and moor for grading stolk. I should bill you that all the land fracing stock. I stoud box, you take all the later last country is reclaimed box. 62% Has it been sold under the Land Purchase 28024 Actar-Cuty one townland, consisting of fifty families, but we are waiting for the Congested Districts Board to deal with our landlerds, who are very willing to sall. 28005. And are you hopeful that purchases will be offeated 2-Yes. offested?—Yes. Within the last month I have had a letter from Sir John Olphert, who is the chief landlerd in the district, on the subject. Clophanesty forms one-thed of the Dundranghy Unico. From "Agricultural Statistics of Irokand" for the very 190 it amount that More are in the cuties Union 2,999 holdings, and the

number of milch cown is 4,800. That means one cow s confined to one now means the family is without milk for at least ten weeks each 28226. What breed of estile is kept in your locality: -A small mountain breed. One who is not an expertdoes not like to venture an opinion on that question. They are a small breed and perhaps soft the country. venture on colition on that execution. The sverage quantity of mile per bood per animal is 400 pilices, I understood, for all Ireland. In Densgal we don't expect more than 150 pilices, and we would

we don't expect more than 200 gallons, and we would regard that as a big average.
20227. We have heard it stated that in a locality not far from yours it is very much below 250 gallone? 20228. Have you got in your district what is known as the old Iriak cow?-Well, I am afraid I carried snawes that. Our cattle use a small hardy breed that

stend the cold and feed on pasture that a decent cow could not be aupported on. 2022. They are enimels that would yield a very areall price if offered for sale in the fairs?—Yes.

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20200. 28 or £107-Barely beyond £10. We had a meeting of the people and this matter was discussed a mooting of the people and the misses was coroner by tensate, merchants, the reteriorsy surgeon, and the medical officer, and we concluded that not more the medical oneer, and we continued the singly of than one fifth of the people surporal such a ringity of milk as would easily them to have make for their ton and a "drop" for the younger members of the family for supper. I wish to say also, in eagled to this milk and a "drop" to the younger members or we ensure, for upper. I wish to say also, in reject to this milk question, that things will go fairly well with us in years such as leat year, when the copp of potabous is absolute, and when they would be used for thiner and supper the milk would mp it messed, but when

S. W. STRANGE, Esq., Secretary.

or twelve cows, and he churns the milk and sells the

20222. Are they not saked for the milk?-I think

they are not asked for it, and they are not living much further from the town than I am. I believe if there

Mill suppor the mulk would not be mused, but when the potatoes become exhausted the people are obliged to take ten at all the meels, for punding without milk to take be at an use mean, for printings were anna-is not a pointible dish.
28291. Has any effect hem made by the Congusted Diskito's Board to improve the breef of the stock?— Yes, contamuously. Stockings we hear by way of Yes, contamonally. Secontaines we here by way of complaint that the whole tendency of the life shock matrixt in in the direction of producing beef, and that very little attention has been devoted to the matter of producing a null-supplying minual. That is what the

people say.

38233. We are quite familiar with that view; have heard it repeated over and over agun in different localities where the operations of the Congrated Dis-tricts. Board have been in orastenst for some passe, and they attribute the depreciation in the milit yield of the cow to the inicolastics of the Gallowsy bull,

of the few to the interchination of the Galbuny body, which is recoprised as a necovarily geodering hered. Has dish been the expedience in your leading to be a second to b may they get a bigger poice for the animal, but it neets

say they get a tagger price for the unimas, but it news more to maintain it.

38338. With regard to the feeding of the creite, this is number of campiorheals ingospicase in reference to is made at a campiorheal ingospicase in reference to is made at the campion of the companion of the is made at the campion of the campion of the is made for white feeding, in all probability the pro-duction of milk will be largely headingspech. It I wasted to know from you is this, has any effort bean track to this will. But largely by the greening of

catch crops? -- Efforts may have been made, but they

Rev. Jone Borts, P.P .- 18th August, 1919. have not been successful. The deficiency of the mulk is stiributable largely to the small breed of cattle, and

they are kept small become of the wretched granug-28334. They are stanted in their growth because they are not well nourished?—Yes, and the people are not in a mortisin to feed a good clear of core. The not in a position to feed a good class of core. The house-fording consists of bay in the winter and pe kens terning The cattle prod to get Indian meal. but the prace is user probabilities so far as the possi-

people are consurred. 28236. Have you a migratory population in your district?—Xes. My parksh would have about 6,550 people and we calculate that nomething like 2,500

of our people migrate every May. 28203. To Engineal and Scattants—Yes, and into the large firms between Lecturiousty and Durry, and the large firms between Lecturiousty and Durry, and give there as present. Our entirely fare tony and gibt there as present of upon to survive, the early as their years of upon to go to survive. Our servine girms we excepteder. This are very condition girth. The effit of Durry in full of thems. At the age of twenty of twitted-survive girth American State

of twenty or british one may go so Allichon size here of our Our years must from existen to threuly-fire go to Sacaland. After that they go to America. The young case from size to Efficient and stateon would go to the Lagra district a real serve their period of six continuous and the continuous size of the continuous si

28397. The powerty of the home life, in the first ju-stance, is the faster that produces this result, I tele-ist—Yes. 20238. It is very immutable and very regretishe?— Yes. We have been striving to smootrage industries, has we have not been always successful. We did start beene-spinning in the hope of keeping our girls at bonne but when it was going on for a time it colleged. It is a miniprious that we should send our children abroad. though I do not wish to convey the impression the

through a war walked by treated untrover-they are valked by treated untroverse and takes a treaters and materious over lind to them, and takes that the state of the contract of the contract of the the question that make it very deplace that our young the should go area. It is one of the things young the should go area. It is one of the things that distriction our people, it. Do those respects there In other respects their to them. The asked of it, and all of in lemma it. In other respects near masters and mistreness are kind to them. The school life than suffers. We will have as many as one bundeed and thirty civilizes in the schools to the winter and unity construct in use second as subsolutional and an May they all leave us, and our subsolutional surface. That condition of things as improving of late: the people in the county Donegal have prebay

prepare in the county Donegal have perhaps introvered more in twenty years than any other part of Lesland, Livany of our people were evicted twenty-five years ago, and they were very poor. SECTS. Mr. O'Berse. On what estate? Sir John sphervigh and the see. That was a the Birtime of Sir John's father. Sir John binoul! Otphert's, between as on strume of Sir John's Salber. Sir John himself is a humane landbrek, and considerate with his tenerate. I am only pointing out the clammed condition of

pointing out the claused condition of the I am over possess yet had priktl famines, due to pripels. In these days we had priktl famines, due to influes of the petalo resp, and in the month of adult we had to negly seems of these pecals with rest, polarious—encour given us by the Edulys sed observement, or the var also great diffractly in printing families meal for them at that time. They had to printing the period of t Indian meal for them at that time. They had to go to the thopkeepers and get the xeed on credit, and the money was paid when the children came bone from service. Now all that is obsuged. They have become

in their own limited way independent. 20240. The word "tridependent" is only a relative term?-Ot, yes. The fishing has been developed all over the court.

offered them so far.

28241. Has the administration of the Congested Districts Board blvg useful in that direction?-Very

18942. Have they done saything to improve the broad of cottle, other than the introduction of these bulls, which seems a doubtful blessing?—The work of improving hered of cottle has been in the hands of the aeighbours. Department for several years. 18963. Are the people themselves accious to con-true the use of three bulls?—No alternative has been

28244. Because it is quite a recognised thing that II Skiry continue to haved from these bulls with stock that have strendy been ground from the same strain. unit have arrestly been deceased from the same about, uffignately the milk yield will decrease to such an ora-tent as to be almost valueless from the point of view of mentaling the infinit population, and the growing oblidess N-Ver. 28245. We have had evidence of that in Communica

where the same policy is in operation, and what I tood which would be more useful for dairying pur-mes v—Yas. At the meeting at which I discussed occal when wend he more useful for distring pur-poses?—Yas. At the meeting at which I discussed the ovidence that I was to give before this Commission that makes was discussed, and the people complained that they did not know what the remody was to be.

20240. But at all events they feel that their interestare imperified by the use of three aritmels, and that is explicitly to large those in authority to large. date unother bosed that would be more beneficial from the dairy point of view?-One of me to people Commission will be to fix the number of the people Commission will be to fix the number of the people Commission will be to fix the number of the people se people don't value mile or a food for the young. ove people don't value milit or a food for the young-Tho metian offers told to that the had seem young shildern given condensed milit and black order. The people, I unfolded and to really see where the supery came in. I have no doubt that when the personalings of this Commission appear in the papers people will resognee the importance of feeding their children with milk.

26947. It is obvious that they need education on that point?—Lee, on many points. The progress made has been largely due to the amount of information they have got during the last treetly years from the Congested Datricis Board, and the Department of Appiculate. Our perpos on a conservative rough, and the Lepterment to Appiculate. Our perpose on a conservative rough and user where percoints storily into their beads. There we no objection against the greening of postsoon at the storil, but yet the people are beginning to it the storil, but yet the people are beginning to

scope it. 20246. They look with distorte on novolties when introduced into the district, and they think that the methods adopted by the fathers and prordfathers are quite good enough for them?—That is very great their stitiuse of mine 2014). Happily the school-master has been abroad

and that prejudice has been overcome?-Yes, very 28000. I would like to refer again to that question of the growing of outer super, because the Commission has had evidence before them by an instructure who

has had exidinces before them by an instructory was was engaged in dealing with load on ourse facility that was engaged in dealing with load on ourse facility than was the powers port of Donagal is, and they have read parameter copie growing in the mostly of April which provide an admirable milli-producing food for militie collin. It loop that efforts will be made and the colling of the most of the colling of the most colling of the most of the colling of the most colling of the colling of the colling of the most of the colling of the colling of the most colling of the food colling of the colling of the colling of the colling of the food colling of the colling of the colling of the colling of the food colling of the colling of the colling of the colling of the food colling of the colling of the colling of the colling of the food colling of the colling of the colling of the colling of the food colling of the colling of the colling of the colling of the food colling of the colling of the colling of the colling of the food colling of the colling of the colling of the colling of the food colling of the colling of the colling of the colling of the food colling of the colling of you, from what we have heard oud from whee we have you, from what we care means and from want we have seen, that there is no doubt that an exercise amount of good can be done by the introduction of this system?—I have no foubt of it.

28251. We have seen in the wildest part of the Kerry mountains, on the slarges of the Atlantic, beautithe representation of the attending to the attending committed in the control of evalable. Of course there are no greatnesses in your district?—No, and no durine, and no milk sold, or

59252. Whatever milk is enchanged between farmers would not be for money but through good feeling and good natice?—Yes, that is one thing that is a very striking feature of our people. I gave you evidence,

strating means of our people. I gave you evacuous, that fir two months, or ten weeks, people deponding on one con would be deprived of milk, yet they manage to get along largely through the charity of these

anguerous 2225 Have you much tobsrenheds in that region? —Unfortunately a good dead. The movement of Laty Aberdan has done if great day to the first work. Xeas you would not not a ventilated room, or a window raised. The people did not have the value of it. Yaeve is not a house now that done not have the window the value of it.

breed of posts.

in the newspaper.

there a few years ago, 20278. Not lately?-No. 28274. Did you find her uneful?-You, not only useful for those who were remaining at borne, but for those who were savking service about. The people took to the instruction

finite. Do you thank it would be possible to get a belly goes in your parish?—I dank see why we should not. We are well attented for introducing a good 20077. The Women's National Health Association has taken the matter up and are most auxonous to introduce those beends, and the Department are helping them in every way possible; in fact the Department with she goate to be distributed through the Women's National Health Association?—If the proposition was made to the it would take an interest in it, and see that someone would be found to take charge of the

29858. I use a member of the Goat Society and I will bring the matter forward. Do you find that the people feed their children on attrabout?—You; if they

had milk. That is one of the evinences on property with mr. I have been back in that posish for its with mr. That is one of the evidences of prosperity with us. I have been book to that pointh for for-year. Fourther years ago there was no calmant porndigs, but since I came bank I have been very cruck steeds by this charge. I would to the Congested when the people could have their own own pround. The people are taking to perfage. Lest year they had a pleasified supply of potencies. They have the ball as pleasified supply of potencies are such that they

20070. We had evidence in other parts of the north of Lectard that children going into the bespital in one district where there is a good deal of telescentric absolutely did not know the tests of milit—In some of the passess they don't mind about having suffic for the star. In Tory Island they don't, and they don't

\$8972. Lady Evenants.-Don the domestic reasonsy instructeess work in your parish?-She was working

seem to ours much shout hutter in Tory either. 20271. The CHURKAY.—I can quite understand their contemps for fish, but with regard to huster I cannot understand their attitude?—It is such as I have stated.

cen take the potetoes for dinner and supper, 2000. We had evidence in Ennishiben of 20202. We bad evidence in Ennishiben of children being fed on poision from a menth old?—I saw that

and the fact that they do not is very much a matter of pride. Our people don't like keeping goats, because it indicates poverty. They are a proud people.

28526. It may be of interest to you to know that a Good Souterly has been established in Delhin for the purpose of interodoling a may been, whose habits are different from the ordinary Irsis, goat, and they have this great alreadage over the native breed, batch it can be so arranged that they out be in milk in the winter season—New, that is important when dealing with 29037. And if you were at all interested in the cuestion, a communication to the accentry of the Gost Society in Dublia would provide you with all the available information with regard to these new breeds

of vanishion. The whole country has been stured up to the importance of it. If the people had the information they would set. In that respect there is a great change over the country.

28254. Are goats kept in that locality?-In the 38855. That does seem strange. Are these willised for milk-production, or are they remain wild. A ribay are running wild. A man told no the other day that be bed for goats, and years ago he had thirty. There is a strong projection agents the heeping of goats. I have been presiding upon propie the importance of hooling into this question of milk trupply,

pertunes or sommy into tens questions or mak ruppy, and looking even to goods to supply it. There is a large scotten of my parish, and of all the perishen I should my along the western ser-board, where goats could be kept at very little out. The holdings adjoin

the mountains, and those goats would give vary intile trouble. If there was a good class of gost introduced, I don't see why the people should not take to them,

of ventilation.

of scats?-Yes.

28258. With regard to the quality of the milk, is to pour in butter int?—I don't think so. 20209. The quality is falc?-Yes. 28280. The quantity is the biopest difficulty?-Yes.

Section. The quantity in the biggest difficulty?—Yes, - 18001. Has any representation ever been made to the Department of Agriculture or to the Congression Districts Board, as to the understability of introdusing this bread when it has been discovered that the pro-duces of the beaut is a way bad dairy sevents?—We have a Gussay Consulties dealing with that subject. I am not a manner, but I know the members are very solive, and from the proceedings reported in the peess I see they are discussing that maker at all their meetings. It seems to me that although they are meetings. It seems to me tone according to the dark. Our very exercent that they are growing in the dark. Our toembers are marely talking of it, they have no experience of anything cise but the existing condition

ed things. 18092. The Department have 20092. The Department have embarked on a superior for the purpose of perioding built of a military strain, that would be likely to improve the yield of milk from the dairy cown in districts where it has really, and in all probability the interdenction of built of the periodic of the pe key, and in all probacaness use inhomosome to be an experiment and that kind into your finishest would be an experiment arminage to the possible. Would it not be possible to have a favor of them brills introduced into your locality (or the purpose of improving the milk yield of the deliver shock already in existence?—Existence.

2010. If you had an opportunity of mentioning 2800.8 If you had an opportunity of mentioning the matter to the measure of your Committee is might be blueseficial and useful to them to know that such a schums in to existence, and that it is possible for these to co-operate in it. Do the farmers in that locality salt of which we have beard described from time to dime as "the cell faith you"?—No I don't think I

have ever heard the word 550%. For my own part I would be rether inclined to think that it is a sentimental idea that is fortered in scene peoples' minds, and I was actions to know here the older people had got this belief with regard to this saystic satisful moves as the old frish cow?—They are more inclined to fall of horses.

20265. Lody Evenuer.-Have you ever heard of sheep giving milk ?- Yes

DOOR to the interception.

DEPTR. Here you got an Adulter Nume or a Lady
DEPTR. Here you got an Adulter Nume or a Lady
DEPTR. Here you got an Adulter Numer or a
statistic of Lord Predeficit. Pflaggards I have been
statistic to Lord Predeficit. Pflaggards I have been
subscription.

I have been application to him and to be
subscription.

In the control of the predeficit of the control
subscription.

The proposition. We had one for there years and
she bill too, and, we are now exacting considers with
she bill too, and, we are now exacting considers with
the bill too the proposition of the commissioners

O freely Liches to have a nearest of the Commissioners

O freely Liches to have a nearest of the Commissioners of Irish Lights to have a permanent more on the island. There is no dooter to the island and there

Mind. There is no course on an amon are series to observe the observed of griting one; we are pressing that upon the attention of the Coupraid Districts Board and the Countriesioners of Brish Lights.
20076. The Countries:—What would be the population of Tory Island?-Sixty families.

20277. From 200 to 300 people, I suppose?-Yes. 2027s. Lady Evenano — Have you free dinners or lunchrons given in your schools? — No.

Settle. In some places they have been found a great-bentil to the poor—Tea. We were speaking of have been to the poor—Tea. We were speaking of have districts the supplies radit to the BL Levil. Littlems districts the supplies radit to the BL Levil. Littlems and the state to the country. We have it boungs in conce side ching lists. I have reggested in my mammany of evilence as a record to the state of the state of the state of the state of the conduction. If a melli couply the actions on of tillage, conduction is not considerable.

reduction of more abundant supply of home-grown reduction of more abundant supply of home-grown nedicg shifts for winter feeding, unlargement of hold-

secting some set where covering companies to con-ings, where possible, desixing, fracing, settleful measures. I know large tracts of surrectained bogs in our district—between 80,000 and 60,000 acms in my parish since. Looking over the evidence given before the Councilation appetited in 1860 to inquise the tracts.

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into the destitution in this part of the country we not dealing with now, I find that Mr. Sharons Crewled was strongly in fevera of extension of the holdings He said that in Donegal there was comething He said that in Donegal there was scorething filts 150,000 series improvable for cultivation, and 250,000 areas improvable for pasture. We have between 50,000 and 49,000 series of that its one parish. It will be, I pressure, has work of a Horns Government to see that these lands are furned to best second for the people, these thiny are highed to drawn and fuzze bern. said make them available for guaring purposes, or for the raising of food stuffs. I do not wish to convey that the raising of food stuffs. If do not wish to convey that the landleeds are not willing to meet the demands of the tensuits for these cert-lying leads, but it is really s matter of orpital, and if the pocers tenante living user these instrumed lends were solited it would be very great matter. 29280. Mr. Winaxx.—I just missed, Father Barte, the figures you quoted from the Agricultural Statistics of Iremed. of Ireland. You say, in your summary of evidence, there are in the Dunfacuarty Union 2.939 holdings, and

Boy. Jone Boxta, P.P .- 18th August, 1912.

western scalesard about one over to creay family and a freetien over. 28282. Because that particular solution has been present on its in several phone as the ideal solution of present on in in several parcon as the ineal engineer of the milk supply problem—that no family should be without a core—Yes. without a cow?-Yes. 29283. That may improve matters, but it by no mrss solves the whole problem?-It does not. Do you find that there is much variation in the sadividual cows in the matter of yielding milk?-There would be. In the neighbourhood of a

opic are better, said it is there the estile are. nave not them in Greedore and the Boses and Clockman's. There would be in the districts on the

you cannot expect a large supply. The yield of milk would very largely depend upon the feedbar of the corn. Our corn are not led million if they were well 20285. One of the various suggestions that was made to un was that instead of introducing the new broads of cattle into such districts as this she test should be made of the mimals native to it and the breeding should be from these?-I have seen that, 38690. You think that that would probably work favorable?—I think so; of course it would work

naispinar—cos; it is correct.

38381. That means much more than one cor to each
bolding?—Yes. You bave 1,100 families in my dis-trict. In the district of Dunfanaghy for instance, the

that the number of mileh cove is 4,939. Is that a Mr. D. Pasterner constined.

28287. The CRUMMAN.—You are Executive Sanitary Officer in the Seconds of Derry !—You, sir. 28288. Would you be good enough to tell the Commission white steps have have taken by the local authority bare to enforce the provisions of the Dairies and Cowsheds Order?—The locat account for also appetited a veterinary inspector. They have also appetited one of the sub-manulary officers to look after appetited one of the sub-manulary officers to look after a milk-shope. They also here a register of all the unners of con-keepers and surrevers

milk in the city. 28099. In regarration rigidly enforced?—IB is. 26290. And the executive surfaces officer finding a com-keeper selling milk who was not registered re-ports him to the Connel?—Yes, 28201. Her it been found necessary to institute pro-cutions with a view to enforcing registration?—Not

23299. How long as the Order to operation in Derry? Since 1969. 20203. Are reports prescuted by the veterinary and

2020. Are reports presented by the verennary and other inspectors to the Council monthly as to the cam-dition in which they find the layers and the stock legal shorein?—The veterinary importor reports monthly and therein.—The reterinsty impedies reports monthly and the auxiliary improves feetinglish, taken place in the 1999s. Has any improvement taken place in the beging of the cown in the hyperis—A was improvement, 2019s. Have presentions were hope undertaken the the purpose of infaccing the improvements considered necessary by those officers?—Yes; several presentious have been instituted.

28305. And with satisfactory results?—Yes. 28007. What properties of the milk consumed in Deary would be resed outside the municipal area?—A

large quantity.

con. What number of core are kept in the city?-Three are eighty-eight on-keepers, with a total of shout three bundred and fifty cown. 28380. What is the population of Derry?-42,000. 28000. Three bundred and fifty cows would not be a

large number to provide for such a large population, but I take it milk is sent in by rail?—Not by rail, but by earts from the country. 25501 Yes. We have coming into use the tilly are removed. 28302. It any supervision exercised over the oscillation in which the nills is would by these considerations.—We have no supervision from the horough

20305. The becough exercises un supervision over the condition in which the milk brought in from cotable centres would be distributed?-None whatever, 18314. Are samples taken by the Food and Druge

Act Inspector to assertain whether or not the milk is adulterated?—Yes, regularly. 28305. Have presecutions been ordered on his reports? Wes.

28303. What sort of pensities have been imposed?— In one of botternifk the pensities have reached 45 in the state of th

28308. And the main trouble is the hostermille?-

23000. In the leatermilk also taken from the outside ares and sold on the streets ... Yes. 28310. And are the territoria these that one sace to large scatters of population?-They are the old wooden

28311. For what purpose would milk of that bind be used?—Butteemilk in Decry in the staple food of the

28312. Do they use it with porridge?-Yes. 28312. Do they one of when you was

28334. In it largely used in that way?-You very langely. \$8015. In there a regular market or is it sold process enously throughout the city?—From door to door.

S8016. Ms. O'Berre.—It is buttermill, not separated milk!—It is buttersilk. ISSUT. The Charman.—Is there any separated milk sold?-Very Ettle (d) Very name. SSS18. Are there may creameries may Durry's—No. 28019. In these may sometity of milk in the city h—No. 28020. Milk is always available for those having

money to buy?-Yes. oney to may: — res. SSORI. Is milk appreciated as a food by the working population, and do they provide as much as their measurable them to do fee the normalment of their chil-

58931. So that, from your point of view, there is a happy state of things pravailing?—Yes, SERRI. Have you over beard of infant children being

20224. Happy Deny, which is immune from that orizon equinat irreasolty which prevails elsewhere. Be-parding the condition of the milk shape, are they reprlarly impected !- Yes.

28225. And do you find that care is exercised three engaged in the trade in order to keep the milk clean and free from contamination?—Ees, every precaption is taken

200200. In milk kept in unappreced vessels?--Yes. 28327. Are protecutions ever redered for breaches of the Order in that tray?-When the Order was put into the tries in that they were a number of prosecutions, but not lately. We have got them into it. 28728. When the standard was being fixed, and when the dealers recognized what is required from them, you

tions?-Yes.

are willing to conform with the rear

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Mr. D. Francism,-18th Augus

28329. You are familiar with these regulations?-Yes, I am.

18880. Du you comider they are too exacting or impose unreasonable obligations on these engaged in the finds?—I don't know, but I find the secure conform with them very more than they understood the requestion, 28351. Now that they understood the requestion, you don't often hear compliants as to the imposition about on them?—We have some in Derry.

28883. Do must recorn over seen to evane mape-the by saying that they have no milk to sell when they would have milk concealed in other portions of the initiation?—Not to my knowledge. the initiation?—Not to my knowledge.
28383. Has any outbents of infectious disease ever arisen owing to the milk supply?—Yes.
2000s. And wint action was taken by the local artherity under these greenstwees !- Immediately

when the case was traced, the local sutherity had the sale of milk stopped. 2803. And they suspended the sale until a certifioute was given by the usedical officer in charge of the name that it was note to have safe sold from that habitation?—Yes.

\$8000. Do you find that those orgaged in the tends

are willing to conform with the requirements hid down for the protection of public health?—They do. 2007. And they sho are willing to carry out whater improvements may be considered necessary by

officers of the urban authority for larging their corns in a clean and proper condition?—They do. 2000. In supervision contribed over the elevations of the people organical in the handling of the milk and the milking of the court—Yes, constantly. 28339. Are the cow-proces chilged to provide a

28339. Are the cove-review obtaged to provine a con-referee for washing the hands of the milkres?—Xes. 28340. Do they was overalls militing?—Xe. 28341. Have they laid form concerts frees in the tyre and provided effective drainings - The majority

the byces are concreted and properly desined. city kept by one man?-The highest would be fifteen \$8043. Mr. Wmsus.-Inside the city?-Yes; I om

S0465, Mr. William.—memor the cuty.—area a mi-laiking now entirely of inside the city.

20044. The Chansan.—Have you may knowledge of the calls yield of these count—I have not.

20045. You have board no complicate of the deteriors-

present day!—No.
2846. Where are they usually bought?—In the Billot. Yan. has.
Billot. Yan. has. 18947. Are these cown impected by a veterinary in-spector?—Xes.
28948. Has your veterinary inspector ever reported

that he has found in the dairy beeds of the city cown that he suspected were suffering from tuberculars that he suspected were suffering from tunerconnex affection?—Not to my knowledge.

28346. Lady Evraxim.—Do you think it would be on advantage to the city authorities to have power to in-

spect the area from which the milk supplied to the city owners—I consider it would be a great advantage to the city if they could inspect the faktion oriside. 18850. You don't think it fair to have the milk sent in to the city when you have no power to increase the conditions under which that milk is produced in the country!—No.

20051. Do you consider that the by-products of milk should be placed under the same rules and regulations to now milk?—I consider that should. 28352. What is the price of milk in Decry?-- In the summer 104, a online. and in the winter, is.

18003, Professor Marrant.—Betail?—You. 28354. Lady Evenson.-Are the dairy cown heat in the city in winter general contride the city in sommer?

No; there are finish inside the city area.

28555. Of course these corn are inspected during the summer?-Not in the fields. They are not inspected in the fields. Some of them are milked in the fields. and some brought into the byces

\$8000. Do you consider that liceusing would be more solvantageous than registration; do you think it would work better to have desire formed than registered? that the registration, so far as we are concerned in Derry, is very satisfactory. 28107. Mr. Witson.—You give us a figure of approxi-mately three bursired and fifty as representing the receiver of coses that are bound within the city area?

to keep the milk in. Printed image digitised by the University of Southampton Library Digitisation Unit

I cannot nawer test question.

28000. Do you know how much milk they would good.

1800 it you fine move made milk they would good.

1800 it was trying to work out from the approximate average what the sepply available in Derry would

be per head or per thousand?—I have no iden. I have way of obtaining that information. 50 Way of obsuming was incorrection. 28002. And I suppose the impection system does not include any kind of estimate of the built passing through the street?—No. 38333. Woold It not be desirable that that should

28003, Woosa it ust be desirable that may meant be estimated?—Yes; I agree that it would be desirable. 28394. You referred to the prosecutions for sinker-sted butternillt. Have you need for your own perated battemilk. Have you ford for your own perwater to one hundard of milk.
28365, You fixed that?-No that standard was decided by the King's Beach Division as a fair prounber. 28000. It is not a legal standard?-No. We had a secon, as in more a regim seminary—no. We deal, a lot of live in ordinaction with it quantities. 28867. It have seen the Deary cases reported pretty railtys—The people have got a label on their chain stating that it is sold as "milk and water; parity not

28008. You don't attempt to interfere with them? co samples, and we see that they do not We do. We turn samples, and we see then may an nor shallment it with 50 per cost, of vater. 28009. Here you say then what quantity of milk a workingman's family in Deery would buy in the course of a day or a work?—There are some I think would is any or a water. Incee are some I think would be buy very much. 2007b. Why is that; is it because they don't under-

stand it, or spend their money on other times?-They one it, or spend their mostey on other timage?—They send their money on other things. 26571, Mr. O'Butte,—I think you said that the milk is mostly sold through the storets here in costs?-Tes. 28872. From door to door?-Tee. 28173. In wooden cherns that they dip into?-That is the bettermilk; the sweet milk is sold in the ordinary

ors. 28874. With a tap?—Yes. 28875. You tkink that a good scheme?—Yes. 28076. That is brought into the sirects from the 26376. That is brought into the streets from byres?—Yes. 28377. In that case there are no regular shops, very faw of them?-We have one hundred and eightyeight milk shore in the city 28070. They get the suff from outside?—They buy the mife from these caris and retail it aut. 28379. They key in buff and retail it?—Yes. 28379. They key in buff and retail it?—Yes. 28690. Is there much milk coming in from the ortife framers to supply these milk shous?—We have

fifty-two coming in from farmers.

2000). Not by bridght-No; we get no milk by rail 65 I am aware oc. 38882. Are those shops for the most part well kept? -Tex 20355. They don't mix the milk up with parellin oil and dry find?—No; they must confirm with the Order.
The spattness it is which they keep the suik must not
be connected with the living seem.
28334. Do you think it would be an advantage to the 2000. Do you terms it would be no accurately to the bown generally to have regular milk depots on by the town; do you think it would be may advantage in ea-siling you to ensure a timmor and chapper stopply of milk?—I can of opinion that our preemt agreem

milk supply is very good.

2836d. Perfessor METTAM.—In what sense do you mean the milk supply as good?—As to cleanliness and as to being kept in proper remels.

28888. Now, as to cleanisten, are samples taken
from time to time of the milk examined as to clean.

it made?-None.

Smess?-No; not so to cleanliness. It is not analysed

with regard to elevalitiess.

28387. In there may hapteriological examination of 2008, And you don't knew whether it is con-tentionated with measure or other things?—No. 25009. The scalejus Gast are made are chamical analyses with regard to butter fait?—Yes. 2500. And de I understand you to any a regards the milk shops that they keep nothing else in the shops but milk?—These are small shops that sell groceries and other commodities, but they have a separate place

Mr. D. FLETCHER.—17th August, 1912.

1860). A squarte shap?—A reporter apartizable 1890. His fi is a reporter entry?—36: and other hisps hand out to be reporter entry?—36: and deposit who were out generics and other hisps hand out the milk when it is required?—36: Too can enter these places at any time, I report to make an eleoperator?—26: and is required to the property of the proper

2007. The the September Set time to the Settle Set 2007. The time September Set time to Settle Set 2007. The set whether supports his to prove to go into the occurity to ensurine the conditions under which has cover are supple—Set. 2009. Consequently, the cubic that are kept to the terms now examined by the wetersharey inseptotos, and you have them under control —That is set. 2000. But the cover in the country are not inseptotod. 2000. The thin cover in the country are not inseptotod.

28400. But the corus in the country are not inspected by the verticatesy supports, and you have no control over them.—No. 28901. Do you blank its would be wise if you had power to go into the country and make an inspection of the corus and lyone—To, it would be a great alvantage to the city to have outside bytes inspected. 28900. In these much object make in the country

associated by the state of the state of the country second Debry-1—to a libral three in the state of the Order to the state of the Order cover all that is needful to secure a clean and healthy wife supply—the may option, there is one defect in the state of the stat

May. The farmer may go to a magahatouring machan and key a tabercalion over. That over in greated to this field and the farmer selfs site sulks, and that velocitancy inspector examos go out to inspect for animals. The follow facility the extended to enable the velocitancy inspector to go out and inspect the credit while greating in adjusting launch.

2943. Mr. O'Sures.—Do you meen he has not power to de that?—He has no exhibitly.
28406. Preferent Herren.—By you think is would be a good thing, exposing the eows determedives were bounded; I mean in this sense, that every compensing soft should be regastered in some way, so that the could be identified—I think is would be a very mode.

bing. See Cannexy.—Is there may other weatmost in the Order that has strong you so no intelligent and the control of the contr

ration of the cable while being grand.
28403. These are two points that you have directed
are attraction. So—that six with flowy may be about
the boundary of the company of the cable
that builtnick as when they are within, and to go out
and saccettin das castificate under which milk is produced in the coster areas that seed a supply late the
continues.

Mr. Jone Howare, M.R.C.V.S., excepted.

48

2000. The Chainnes, —Two no proteining workings are many convenient to Durry, Mr. Zhowshi, —Tw. 2000. The many convenient to Durry, Mr. Zhowshi, —Tw. 2000. The periodic of Perry which exhibits must be make an experient of Perry which exhibits must be made in Perry 2000. The Perry 2000 of the the Perry 2000 of

the Order-that is, the cover go out to the grass to

to the time-exist test—two, several, and we always coughting.

3-3418 We would be wray glid to have your experience of the property of the pro

of the control of the

Section 11 the conversate were and commission over any conference of the conversate which a trinsical year motion, would specify the conference of the situation of codes the situation of these nationals — I would have consumerable indication, revisable for further symptoms, and presented the use of the milk. Justice would be the first step 1 would reconstructed. It mean, here pro-forms the conference of the conference of the conpro-forms of the conference of the conference of the pro-forms of the conference of the conference of the contraction of the contractio

2002. Do you apply the test offen; I mean, have pre-found it measure to confirm or relate your manifolds in many cases?—No.
28433. How many lines within the year would you apply the seeds—Ody four or fire times altegether in two years. The seek in the city here are very healthy.
28634. Have you ever, by your private practice, here said to apply the tests—Test.

20163. What is the result of these cases? I den't want to here expiring that vould be in the nature of private information befores a productional man stall his circus. I don't want to know the name of the clients, included the control of the control of the clients, where you have applied it in the case of private clients. I note that the control have the or at resultions out of treating the course. I have not been control of the 2023, that would be conservance about 30 per control. 2023. That would be conservance about 30 per control.

over in the types, to be an appearance gone. These vessels is to distance yraptoms of disease or of the older being affected.

Selfer. What would become of the reciders; would be a selfer. They have been being affected, the selfer. They have been being on and no bed remain him of the limit of the place of the place. Here yet were belong to be accorded whether the selfer. Here ye were belong to accordate whether one in constitute absurbe leaving. When have not as it constituted absurbe leaving. When here were any symptems of a teleprocham order or some desired. Here was anything like an induced to

one sensoyed. It turns was divising like an inducated support.

Source of the sensor of the control soldar, the milk is support.

Sensor of the sensor private pression, have you are suggested to have a nor that you extended unappealed as a milk suppler for the family—I diverse do.o. we make the suppler for the family—I diverse do.o. we make it to be supplered for the family—I diverse do.o. when the supplered for the family—I diverse do.o. we make it to be supplered for the make at the supplered for down!—The rowal districts see under the supervision of the maked offices.

medical officers.

28434. Ard not under the separation of the velerancy suggeous.—No, there are three medical gentierer rives have the megavision of the byves under the control of the control of the control of similaritation—to appears making a declore to make as maximizing of the how the check—while the Oeder at that then it was needed;

BRIGE. This series rether an ususual form of set makes its measurants of the bits motion. Below the set of the series of the ser

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28428. - Do you hold say appointment for any other yabile body than the Corporation of Derry?-I have the Inrishowen Union, the City of Derry, and Loudenderry 28420. What provision is made by these local bedies for the enforcement of the provisions of the Orders-I carry out the Order as far as practicable.

26440. Do you make an inspection of all the countrat are yielding milk for those three public bodies?— Yes, come a month under the Cownleds Order. 165, 6705 à houses unour un covenient venc. 25441. Are têtre dany farmers in these districts supplying milk to covamerie?—Outside the area of saven miles, ahmest dit the milk goes to cus scories. 25442. Do you make the same different inspection there as you make within the onty of Derry?—I have power to go outside the city under the Correbede

55448. Here you say public appointment that reading you to carry out in those dittlets the same rightes you discharge in Derry?—I are specified cutied under the Conlegious Diseases Act. 55444. You are not an officer appointed cutside un-29444. You are not an off the the Dairies Order?-No.

28445. Is there any voterinary surgeon appointed in any of these three districts?-No. 29448. And the ratik is sent into the city from sown their are subject to no inspection whatever—there is no inspection of cows as to their health!-No 28447. Do you think that is a desirable state of

28449. And you think it is uccountry in order to secure a besithy soft supply, and to safeguard the public health of the district, that such provision about so made?-Yes; that all the cove should be examined periodically as to their state of health.

produciny as to their state of health, 28450. Are any milk rescools kept by those supaged in a milk tende in the city?—Not that I know of. 18451. Have you formed any optoion as to the obtable milk yield of the core that are in the city probable main yield or new cown sans are in the may dairies?—A big milker would give twenty-five quarts a

18492. It would be more interesting if you could give us the probable average in gallous for twelve months, or during the lactation paried?—I have no figures.

2013. Do you think that any of the dairy owners less preorde?—I have one, Min Gibson, of Moleson.

Dairy, keeps a record by weight. That is the only one

I know.

28454. Have you seer heard from her what is the wrenge milk yold of her dairy stock—No. I have seen the book offen.

28466. De you think the milk yield of the cown of the present time is as good or bettey than it was when the present time is an good or better than it was when you were familiar with them, any, set our diffusor pears ago?—I don't think so. Where there are three or force owns in a byte whole are good militars. He million strain ought to be kept up. We have been going in strain ought to be they up. We have been going in the or most for points, but for the farmer's ask, and for most military to the farmer's ask, and for the control of the points, but for the farmer's ask property of the strain of the control of the c ing shain it would be a great advantage. I know four or five come in every byre that would be splended relifiers, and the rest of the cores would not pay for If these farmers were encounged to

their feeding. If these farmers were e-besed for milk it would be a great bearfit. tered for rolls it would be a great benefit.

19496. That is where the advantage of keeping the tacceds would come in?—We go by quarts. 28417. I do not oure what mussure you use, amyided you been an intelligent conception of the yield?-We go by nounds weight and cuarts. 28455. The keeping of the records will amble the 29406. The everyong or the records was amount one farmer to know which assimal is paying him, and which is a pensioner on the farm?—There are very few milk is a pensioner on the farm?—There are very few milk

producers that keep a record-only two or there that I know; it costs money to do it. 28450. It costs a little trouble?--And they am nothing to be gained by it.

28400. I am afseld I connot accept that as on intelli-grati idea. You have told us younged that in each head there are perhaps also on air good militors, and a number of others that don't pay for their keep. If these were driven out of this daily head, and if good militors were driven out of this daily head, and if good militors were applied to replace them, would it not make the dairy-man's trade more prefitable?—Yes,

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Mr. Jone Howays, M.S.C.V.S .- 13th August; 1919. 28461. Would not that he so advantage to be derived 20002. And if the people engaged in the trade approached the consideration of the question from that point of view, don't you think they would be convinced

that there would be an advantage in keeping receds?hat it would require time. serior. All concessors processes as require time to develop them, but if people start with a prejudice against what it is proposed to adopt, the difficulty of effecting improvements is considerably increased?—Quite right. 28464. Are you aware that the Department base backed on a scheme for the purpose of braiding dairy bolls with milk records in their dams?—Yes, we have ot got one bees.
28465. That might not be entirely the fault of the

Department, because such suimals are available. Do any of the core-bospers in Derry co-operate with the Department in keeping records to secertain whether mod their cores round to quantifies unner two scenes. — Lawre only heave, on he is revere of the application of the section of the section of the section of the controllate test to all settenth rounds from the test to the controllate test to all settenth rounds to be deno with recotors. — post-markets experience that would consider you to determine whether one of the septiments of the two-location of the twiceroun test was militable in the controllate of the twiceroun test was militable in the controllate of the twiceroun test was militable and those was not to be a section of the twiceroun test was militable and those was not to the controllate and the controllate an not their cows would be qualified under this scheme?-

there was a post-morton examination and these were no visible symptoms of inherestoris. 28463. There were no lesions in any of the organa?

38400. And these saimels were reactors5-Yes. 18470. And was the test applied in a careful way !-Yes, by myself. 28471. Under normal conditions?—Yes. 29472. Coder former concrete: And you got a distinct reaction, and notwith-tending the fact that you followed up these cases to post-moviem commissions, so lesions were found on

standing the fact that you followed up these cases to post-morters constructions, our leads as were found on post-morters constructions. On the fact of the lady?—"It. They find after extract, They did not the control industrial most story months before that.

20173. And they were distinct modern?—"Lat. So were also that the result of the replaction, that the could force found the report of the replaction, that takes the could force force on the post-morter casualization.

28475. Was the post-morten examination carried out with once?—Yes, by mysali. 28478. Because you were auxious to see how far the application of the test was rallable?—These two cases I seek a note of. 28417. How long ago was that?—Four or five years \$8975. Was that the only case in which you followed up the animal to the post-merton examination?... Yes they were the only once that I had a chance of doing they were the only once that I had a chance of doing that with.

28470, There is always a difficulty shoot that. That was the only once in which you over had an opportunity of going to the last possible examination? —Yes.

\$8480. Notwithstanding the unsatisfactory result you still think that the application of the trinceralin test would be a help sed a safeguard!—Yes in stamping out tobarculous, if it could be made compulsory.

28461. Where do you think the greatest difficulty
ariana?—What is to be done with reactors? The
best milch cows, and the most healthy-looking animals

best milth cores, and the most healthy-looking animals may rack. An they to continue milting, or he may rack. An they to continue milting, or he may recome the major to the error.

1965. Would sure time to make animals at these?

—Nex, if the owners are willing, but the owners are willing, but the owners are sufficiently only the major of the content and the major of got a reaction in the first instance?—There would be no got a vestion in our new manager—there were no necessity if you got a reaction.

2448X Yac Channan —You got a reaction in two
cases said the post-mortem examination did not several
any tuberculous lesions in the body?—None whatever,

easy inherenties before in the body?—None whatever, 18400. It would, in sense degree, which sook faith in the reliability of the tent?—You cannot excelder it were reliable. We have no bether test, 18407. Yours is not an isolated experience from that point of view, bosoms we had orefiners in Refluct the a prefessional man there, with an aspectone similar to yours, frond and only a contradiction from one

point of view, but from another also—that whereas some animals that field not next, were found on post-meriem arantesion to be filled with tuberculous lesions, the contemp was also found. We had that statement needs before the Communication in Bellistic— 28514, Mr. O'Bunto,-Cao you ensure their being olited?-Xos. When there is an instrusted udder included?—You. When there is an indi-the owner as ordered not to one the milk. 28315. You don't take charge of the cow to see that else is balated?...No. 28315. You have to depend on the owner to isolate 2—Tes: ther are guite willing to do that. I have os. 18488, Lady Evznaup.—£ thick you said that power is?—Toe; they are guite willing to do that, no case of tuberculous udders or suspicion should be given to municipal authorities to inspect odders or suspictors udders, the armstoms. When there cows and byres in the outside areas from which mile except as showing unbealthy symptoms. is a tolerations under or hard utiler is supplied to the city?—Tes.

2949. That you should have power to go outside said inspect the cows?—Where there is any surpleton. wrong with the tests, the male is storoed at once, 28517, Professor Mercus.-To it on easy or the local inspector should, along with the medical 28317. Professor American.—18 to an easy or a difficult filing to form an opticion as to a particular disease of the under; is subcretizate of the under, for instance, on easy thing to Zingmans 9—1 distinguish it uperintendent, here power to examine the stock.

38490. I think if there was no outbreak of discuss you have that power?-We have got up power whopby a hard and paraless excelling of the pider and by the weighty and film appearance of it. It has a very ever over the milk that is coming into the torus.

28401. Den't you know where it is coming from?—
The cows are never examined. They are not attended weighty feel weigny ree.

28438. How do you know it is tuborculosis of the
udder?—I have never gone to turting the milk. I
have never gone so far. It is not necessary where
you have the symptoms of tuborculosis. to as so washing their adders or tests.

28483. That is in the case of the milk coming into the city?-Yes. the city?—Iss.

28998. Do you consider that the by-peadures of
milk should be placed under the same rules and
regulations on new milk?—If it was practicable. All you have the symptoms of uncercutests. 28510 Cycle true, has supposing you have got the symptoms of udder dosesse, dearly you thelet the rational conclusion would be to follow it up to see if it was teleproclassic—Too; we would have to have a regulations on new BREF-HI II was percocuse. An infect court ought to be thoroughly commised. 28404. Pedissor-METFAR.—How long have you been Respector bern?—Under the Contegious Discuses Act To be supported by the support of th 28400. And under the Cowshels and Dairies Order? Since the Order came into force about two or three TENE SEO 2002. Mo you know it these medical omers nave the power of hringing in a voluntuary surgeon 9—I never heard of it. 28196. In tuberculosis common or not in the cettle of the district?—We see very often in the alsoghter-28022. You don't know whether than have two or three a week of old worn out cows.

W. Then your shoughter-bosse experience peace to do so if they wish for both in their examina-tions. I have never beard of it. 28497. Then your sweighter-house experience ours not confern with your clinical everyday practical ex-28623. As to these residers, you say that the difficulty in the question of getting rid of them?—Yes, 28624. Might I suggest that they might be fattened off?—Yes, but that each money. The cowes are 28498. With regard to these two cown that subjected to the tuberculin test, you said that inherenta test was the best we have for diagnosis.

It is the only one we have.

20469. Would you be surprised to hear that the off?-Yes, but that easts money. The cown are bought as milkers, and they are in full milk, and if a cow does not fatten wint is to be done with hee? 28450. Would you be surprised to hear that the tuberrolls, best is satisfactory in 90.5 per cont. of the cases—I believe in it moved. I have some more 28025. If she is day she will fallen?-You, but you mixed. If she is dry she will faithen?—Xes, but you must dry her first. She might not go dry for months. If you could comprased the owner you could attampt out tolerandows, but we have these coses in full milk, and then util not latten as long as they are million, 2885M. Mr. O'Berray.—Could a cow not be dried off without the country of the country o tested with tuberculin very often and on examination afterwards found tuberculous lesions, but I have often tubercully very often and on you two cases of mr own experience where there were 28300. In other words you falled to find thum?— It may have been in the bone. I made an ordinary arithmany:
The CRAIRMAN.—Her period of inelation could be restricted. You cannot dry up a cow in full milk with safety in less than four or five weeks?—I see in test examination. 28301. This accuse to be the general experience— that it is not because the lesions are not there, but fely in less than tour or are waxer-s see an action stock with telescolin it is sametimes the less liber and the lessblest looking over that react. falled to find them?-Yes. millions and the besidelest looking core that react. What is to be done with on extend like that? The owner will say "I will milli wany and at may mill and no one will say "I will milli wany and at may mill and no one will say mar." You have the power to the control of the million of the control of the co 28302. Is it possible that the lesion may be so small that it would be very difficult to find 167—Yes. 28503. You may have a tubercubes leaden the size of a pea?—Yes; I believe in the test myself.
28504. As repeals the case where there was no resettion, is it not the experience that these cows are difficulty coherented ar—Yes. siscent. Yes?—I have the power to step a reactor; when it is be done with hard; \$2009. That is not the question I am positing to you; here you not got the power.—I don't know, 28300. If an animal is giving to because milk, have you not the power to stop you.—If I have a healthy booking over I have no power. injectry tonorranous?—res.
28506. That any one may see they are tuberculous?
-Yes. If a boast is affected with tuberculous sho -Yes ill reset. 28806. In some instances there are very bad cases tubercoloris where there is no resettes to tuber-28031. The CRADERAY, -A further step would be 28507. Is it not a fact that these come are elinically 26x31. The CREMENT—A nutrier step would be to have the milk subjected to be the missingled oranishment sion N—There would be no peen where you have no a babereston adder. If you have a healthy plinishe whiter and the cow showing all the other symptoms or buberculous?-Yea-28506. What kind of inspection of the udder is made in these suspected cause of tuberculosis; do you trest entirely to a clinical examination? Yes, 20009. There is no bacterological examination?-No. 2009. There is no bacterishighed examination N-No. When we have any some of suspecting tuberedosis we cause in have the milk sold.

2019. What was the conducted off.

2019. The conducted off.

2019. What was the result?—I had not the standard off.

2019. What was the result?—I had not the standard off. 28G02, Professor METTAN -Do you know that cow which might have a perfectly normal udder might he infected with toberculosis?—Certalely. But not so dangroom an a tubercular udder. 28003. That is the concincion of the Boyal Com-mission on Tuberculosis?—How did it convey the Subercle? bundty of following them up. 28034. By the blood stream to the older or the expresses?—How would it come? 28518. A detailed post-mortem examination of these submals was not made?—Not by me. It is very hard 28500. From the lexions?-When there are no to follow up an animal that way. Mr. R. Same examined. 28103. The Chamman.—You are superintendent, I understand, Mr. Shier, of the Dury abattelr?—Yes, 28557. You have handed in to the Commission table giving the number of snimals slaughtared of the

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Mr. Joux Boware, M.R.C.V.&-18th Aspart, 1918.

Mr. B. Sarra.—18th August, 1912.

26338. And aboring the rounder of minal; that were seed to, not the minner that were affected with relaterable?—Yes. 26389. Unfortunately the number affected with toleroblasis coming under observation seems to be 25400. Would you till the Commandous whether the unsware in in the cross that are disapthread at the sistence for index resolved property of the statute of in other most "Linguistic owner." 25644. It shows any per-lameteum commination models in the command of the contraction of t

nomine in in the core that are shown which in heater left in older tools "Left age of the short of the sheater er in older tools "Left age of the sheater and 38-641. In there are peel-norteen cammanders model by a retectory majorist for the propose of enercities in the late of the sheater and the sheater are to the sheater and the sheater are to the sheater and the sheater are to the sheater are 18-640. When we see (I take it, reprode to exemine Section. Two we see (I take it, reprode to exemine these extention in the sheater are to the sheater are sheater are to the sheater are to the sheater are to the sheater are \$100.00. The sheater are to the sheater are t

these structures is directed to a secretaria case that they make an internet contribution.—That is no. 25044. But whe is doctormen what is the substitution of the contribution of a missian—It is absort correct case the contribution of the contribution of a missian—It is absort correct case.

Selfe. The same cognete in this simplifier themselves, and they call your attention of experience, and they call your attention, the presence, and they call your attention. We never to make the impaction comment—makes the comment of the comment o

settings—Len, that is so,

SSOU, Euro you ear some any core becopld in to

SSOU, Euro you ear some any core becopld in to

SSOU, Euro you ear some

think distinct a yampions of

bletcon-benty—Tin. I while the little of

the consense—Tin. I while the sole of the

best are establing and dry looking, and that attends

my othersion.

SSOU, Schildting on unlessifully appearance—Tine

SSOU, Schildting on unlessifully appearance—Tine

SSOU, Schildting on unlessifully appearance—Tine

SSOU, And you make an imoposition before staughter,

and of the appearance rouses your suspicion you make not of the appearance rouses your suspicion you make not of the appearance of the app

SSECS, And of these in 1807, two core, were found to be suffering from two-rections; in 1806, 25; in 1903, 25; in 1903, 62; in 1913, 62; and in 1903, 1965—Yer. In 1903, 62; in 1914, 62; and in 1903, 1965—Yer. In 1905, 1905, 1905, 1905, 1905, 1905, 1905, 1905, 1905, 1907, 1905, 1905, 1905, 1905, 1905, 1905, 1905, 1905, 1907, 1905, 1905, 1905, 1905, 1905, 1905, 1905, 1905, 1907, 1907, 1905, 1905, 1905, 1905, 1905, 1905, 1905, 1907

All Spirites since March, 1907, as fully set out in
the thire.

Number of County with the
Shingh Street.

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 seements except these of course. In sign may coult, 20,000, De you find a ball or helpe brought in the 30,000, De you find a ball or helpe brought in the simplified which has here led to meturily sufficient gap I found a billist contrary \$25 \times 100, and it was a \$250. Met we were less \$25 \times 100 \text{art} \text{ are the meturily sufficient \$25 \times 100, and it was a \$260. Met element \$25 \times 100, and it was a \$260. Met element \$25 \times 100 \text{ are the collision for any touch and they were sufficient \$25 \text{ are the suf

to far at A could see.

28:501. And IT-Ver, and three weeks before that I had a hall, a spirable united, which was also a bad 28:502. Who was at the less of the careaut-That buyer.

28:503. And has be us redraws against the person who salls.—Secretizes they get hade half.

28:505. Nat of correst, there is no grazzande-L.

saint—accordance they got hole half.

I will be a parameter of the saint will be a parameter of the saint will be got one countries, respectively if they have the beast is going to the sharpiter-brone. 2000A. Are all the beast that read explored for consumerize in Derry IIII of the the station—Yau.

2000A. The saint is beast that the station—Yau.

2000A. The saint is beast that the station—Yau.

2000A. The saint is beautiful that the station—Yau.

2000A. The saint is beautiful that the station—I will be the saint to the beautiful that me exact such that the saint time exact such that the saint time and the saint time and time and time time.

pure and destroyed.

2800. And there is no feet that the ye into human consumption—No; the sankery effour filters the cases.

2800. What condition would the speec be in that short inherendoes become when slaughtered as regards feeth—they are approximately

show tubercoulses become when the does so in time feech—they are gracuity thin, greated the second of the second of the 28070. And they are sold out become they are so, labeling sequences of III health—La a rick. I think not. I think they are perty carrieous about bringing in to the skuppler-bounce cattle which they fifted are

afterns. I quite fallow, but at the same time they are aftern. I quite fallow, but at the same time they are the same of the same of the same of the same of the or the they same far for a same of the same of the diff.—was, to the tagger's low., and thay are get it in diff.—was, to the tagger's low. and there is the satisfar as and it is an experiment to same them to the statistic as the same of public hashib being colongered?—we.

28574. Would these to all cover test are non- me charp broth in the sky that are the shatter, or would then come from the outside seast—They are overed then come from the outside seast—They are object in the materials around the country, and the country of the country of the country of the state of the first around the country.

28577. Mr. Windows—Herre you formed an opinion of the local are positions expressed, as to why the present of head any opinion expressed, as to why the present of a same state of the state of th

36. In 1830 rates were only one.
18977. The explanation may be that the examination has become stricter?—Yes.
18978. The Chernary.—New appointment was in 1898.—At the latter and of that year.
1898.—At the latter and of that year.
1898.—At the latter and of that year.
1898.—At the latter and of the year.
1898.—At the latter and year.
1899.—At t

one year as another S-Ves I never varied.

26000. Mr. O'Berrit. - You say that there are no private stoughter-houses attached to the hardness' stops in the city S-Tares are not.

26001. Are they not illured to have them? - No.
26102. Has a bureler any right to shaughter an ani-

28892. Has a butcher any right to disriplite an animal of any sort on his preminer.—He has not; he reached the state of th

SCS. You would have heard if there was such a const-Yea. Marzan.—These thirty old assemals that were condemned for telescolosis, were they condemned so being suffi for human consumption—Yes.

se being unit for human consumption?—Yes,
38487. What is your standard of conformation; what
do you consider to be the uncessary point for ma azimal
to attain in order to be economical?—My test in if
I find that the particusum is covered with tuberols or
the sides. I I look the beast up and send for Mr.

28388. So therefore the amount of toperele that we enider sufficient is relatively a large lesion?-Yes, in the case of teberculosis 28189. You don't condemn for small leakers of tubers

Mr. B. Snum,-18th Aspast, 1912.

culouis?—I do if they are general.

28000. Suppose you find an odd nodule of tubercle or two, do you pass that careas?—I do.

28001. Lad it is only when the lesions are extensive

We kill on an average about twenty or thirty a week.
28304. Do you find tubercalosis common in swinc?...

1895. Do you make a careful examination of these also?—Yes, as well as I can. I don't think I have power to cot off the head.

28396. Taking the viscees generally, you don't find toberculous transcepts in series?—No. * 28297. Not as momerous as some people believe?--have not found it.

28500. Is there any inspection of fiesh brought into I approprie there are butchers in the country who kill articule and send them into the city?.....! Asn's 28000. Is there may dead most market bere?-No 20000. Is any mest beought in by team?-Some get ment from Glasgow.

2000. Is that impected at all?—Not that I am awar.

28002. Then it is quite possible that meat may come tube the town and he purveyed by the butchers of the town that has never been inspected at all?—I suppose

form make this source are assumed to the control of the control of

2866. All these cases of tubercelosis are not upoca-sarily animals that are very thin?—No, cortainly, 2867. They may be arimals in prime condition?... Yes. I got a splendid cow that the owner paid \$17 for, and she was unfit for buman consumption

Mrs. STRILE HANKS examined,

52

20003. The CRAMMAN.—I understand, Mrs. Hanne, you see the Historiany Secretary of the Eginton Branch of the Wamen's National Health Association in County Color visited a second consistency - Yes.

28009. Will you kindly tell the Commission to what
part of the work of this association your colleagues are
devoling most of their attantion. Here they taken up the question of the milk supply for the children?-No; I am afraid they have not very much 28610. And their observation and the knowledge they

we gained of the way in which children are numished have games of the way in which decreases not represented did not suggest to them the necessity of taking selion on this matter?—No. This is a very scattered district out his matter?—No. This is a very scattered district that we have, and we have only attended to the children the school by giving them proper neurishment. nourishment take?.... Greel, repetable sorp, cooss, and things of that sort. 28812 Do you provide them with a midday meal?— Yes, during the winter. The children take their turn

in bringing a vegetable, and it is cooked in the school room; a demonstration in given, and they get the excited 28613. By whom are the demonstrations given?---By

28613. By whore are the denotestications given?—By the other banches.

28614. Have they got special qualifications to consider them to give these demonstrations —I don't know, but I know they give coolony benome.

28614. Schools under the control of the National Bettel?—Zee. Bester!—Lee.

29314. Do you know whicher or not any of the teachers in these schools have, get any qualiforations from the demanded concourt point of view—whither they have pare thorough any special course of training?—I don't grow the court of their converses that keep have to get it as part of their know, except that keep have to get it as part of their

pointment, 28517. I am afreid it is not incumbers on them to it a describe economy course. Do you find schoolget a demestic economy course. Do you find school-managers to operating with you?—Yes, very strongly in 28618. And they give you all the facilities necessary?

28619. From what course is the expenditure met; is is out of the funds of your local beaush?-No; not very is out of the innes of your some consensual to the bring much. The children sometimes pay a little; they bring a pennyworth of barley and other things and then in some cases the Governor's wife provides the great or

Our fords have been used for the clothing of ekildren. sensores.

19000. Bether than for the feeding?—Yes. We started the matter of the feeding and it was afterwards

taken up by the school managers. 28021. Mr. William, --What district are you speaking 45-Of the district about air miles army, between

Derry and Limerady. 28022. Is that an agricultural district?-Yes.

20023. There will be children of the labouring classes? -Yea 39624. The CHARRAN,—Have you got a Jubilee or district name $t \sim N_0$.

20025. Have any of the officers over reported to yo branch that they found children who were wasted meaning a milk diet and were unable to propure by?-We sak for reports eace a mouth of the sack people in the district from she three different elegymen and the doctor; they send in names and reports of the illinor

decisity they send in names and beposes or the anomal and requirements, and at our monthly meetings we do our best to meet the requirements of the patients. Each thing is given out by vote of the enomittee. 2000. In mile an article of diet that as often any 98006. In mile an articles of such ages, getted in such cases 3—Nes, and ages.
28077. Have you say difficulty un procuring the mile 28077. Have you say difficulty un procuring the mile in the winder season?—Not so such as some years ago.

— and are kind. Since the

it is improving, and more goats are kept. Since the labourers have been supplied with cettages they have mane facilities for keeping goats, soi they are moss tosicpendent. Farmers, as a rule, have ust cared to gosts, and now the labourers are able to do it them-20028. And that is helping the milk supply?-Yes, dexidedly

desidedly. 28939. As what price would the milk be bought that might he pureeyed by your keasely—344. a quart of say period of the year. 19909. That is zoo a probliktive price?—No, not by say mean. If was only last year—i speak as a large milk weadon—that the price was just up to 4a. a gazet. 1990ers Tank.

20031. That was in consequence of the dry sesson? Yes, and one thing and snother.

28602. Prof. Merran.—Have you kept the price up? -Well, not absolutely. In some cases we have. 28003. The Camman.—You spoke of being a large milk vession?—You. 20034. Do you first the yield of milk of your corn suproving?—We are always changing our stock. Our

indparting on a see decays thoughing we like it to get new milkers into the byre.

20035. Fresh calving cows — Nes, and we have a system by which we have so many coming every month.

or thirty in the summer and the bases and writing the colors of the vinter freeling of your county-Xes, great corps.

28037. Do you send milk into the city?—Yes.

28658. By sail or road?--By road,

19000. Your rallk is sent round the sity?-Yes \$5640. Do you supply the industrial population?

We supply the weeklesses and the hermode. I think ours is the only cert allowed into the hermode. As one time time were those or four contractions allowed.

in, but there was a rigid inspection, and curs is now the only one sllowed in. We are absolutely responsible the only one allowed in. We are about for the quality of the mile we supply, a pass every year from the herneke.

2864). Is any impection made of your stock previous to the issue of the pass by the military authorities?-or dairies are immorried once a year by an improduc-The shook are not inspected by any official. 28642. By no profresional man?—No. There is no necomity for it as we have the cown tested ourselves.

Mrs. Street Harra,-18th August, 1919.

There was once a little outbreak of something in the heracks, soil as importion was made of our premises, her enrything was broad all right. 266th Professor Martiak.—Who made that inspec-

ties?-The military people came cot, sod also the medical officers modical officers.

2644. The GRAIMAN.—What Union are you in b.—

So, I flural District of Derry.

2665. I wanted to know whether any impection was
used by any officer of a load sutherity?—No; only by

made by may officer of health.
the medical officer of health.
250-0. Professor Marran.—The decise only inspects 9866. Professor Marran.—The decide only inspects the bywe?—Yes. He comes with a tape measure and see if it is large enough, and whitewashed, and if the ventilation is right,

98647. He makes no snimal inspection?—No, not at \$8648. The CRURAUN.-Have you read the provisions of the Order?-Yes, at the time it was issued, to see

\$6000. As one having a practical improving of the menagement of such an industry, do you think there is anything in this Order that in unduly harmong? No; I welcome inspection; is should be a more rigid more independent impaction. As and more independent importum. As I stated in Dublin, it is more than can be expected that a local notes that be store than can be expected that men could give evidence against his own lat-normal his bread-and-hotter.

against his breast-sun-agates.
2835b. Your view would be that it would lead to a more effected administration of the Order if the Officers appointed were independent of local feeling T—Tex. I don't see how it could be corried out otherwise with any good result. The inspector should be in an infeproduct position.

20052. That seems quite apparent; and there appears to be a consensus of opinion amongst the witnesses

opinion amongst the witnesses resembled before us that the persons carrying out the contradicts sentent as were permanent and the permanent whom the regulation about he dependent on those against whom the regulation about he enforced?—Certifully pot. 20522. Do you think there is any scarcity of milk in . 20032. He you thing more is any sourcery of home in your fishing amongst the working-data population?... I don't think so now. The milk supply has improved very much in recent years. There is no creamony

very much in recent years. There is no creamery within males of us. \$5655. Does the custom exist of giving working men

2003. Does the custom exist of gring working men a milk scapply—Tex.
2004. It is the universal custom?—Tex, both for more milk and for bedermilk.
2005. Do you uselse that the school children see defeate and exhibiting symptoms of insufficient settlement?—I think they are very well attended to be an incomplete the milk of the complete the complete of the complete the complete of t in our district.

28505. You have not heard of children being fed on the and black coffee as has been given in evidence to the Commission elsewhers?—West, I think that bea

frinking as not so had as it was, I think that lease of the said of the said was a second of the said 28506. The CHATHERN,—And the people are getting a better appreciation of the value of milk as a food?—

18609. And make a more vigorous affort to provide it's Yes, and I believe even with the grate they are able to obe the children more milk. There is more home baking escried on as the people have some opposlurity of gotting hutternilk,

28600 Mr. Wilson—There is an increased preincise of milk in your neighborohood—Yes. People used to cent so me far or five miles to get a pick or a quest of milk, but for the last two or three whiles ey did not some so much. 1864s. Mr. O'Bests.—Is that because you mised the Price?→No

19652, Professor Marran,-They have been able to pt it meser home?—Yes; one or two neighbours were pt it memor home?—Yes; one or two neighbours were recohers of our association, and they made an effort which with milk. This to supply people in their own districts with to supply people in their own districts with mile. This seatter came up at our meetings, and I told them

where the children who used to come to me for milk eiros from.

20063. Mr. O'Barror.—Can you tell us at all what second of milk is taken in for a family of four or free. second ef milk is taken in for a family of four or fire. This, for instance, your own labourers. Tou give these so much milk are part of their wages,—Mo. We don't give it as part of their wages,—Mo. We don't give it as part of their wages,—Wo. The black in money, and at the end of the week they pay or much for the coal and the milk. They take on so swrages a quart a days—I am speaking of our You give We

o se extra pera. 28066. The family that take a quart a day, here parcule' ten?-Yes; two or three children, on any Section 1986. Now would profer to see fleet each triffd had at least a quart of milk a day?—Certainly.

28000. Do you think that the people could not affect by or that they don't feel that they get unfairned total milk the people could not be consistent to the milk that they get unfairned total milk the people could be people for the people of the pe

botterralls is used consely for porridge and baking, and three rank is never remery nor permage has causing, and they drink it with their dimmer. I know how some of the other people grine shome to me work, and I think that where they work on one system it is better; the people feel they have more money, and put it to better use.

39367. Lady Evraum.—Do you consider the mothers approximate the value of milk as a food for their shall dran?—Well, I don's think that as a rule they do, but I think that new in our own distinct, upon we have hed so many lectures, and given them so much instruc-

and so many secondary, som given order so muce marran-tion, they are beginning to realise it. 20005. Mr. O'Bratzs.—Do the mothers fined their cividents—To a great extent, 20000. For the full period of nine months?—Yes; in fact, I throk more, sometimes. feet, I some more, sometimes.
29570. Lady Evinsian.—Do you consider that all the hyproduces of milk should be placed under the same roles and regulations as new milk?—I do, mosts. 26671. Mr. Wilson,-The improvement in your dis-20014. 512. n moves.—mr improvements in your one-tries seems to be largely due to the work done by the manufaces of the Women's National Health Association? Not entirely. Instruction has been given in festi-gowing, pecker, coaking, hundry, and butter making. I think the instruction in butter-making and cooking

globility, pennary, commany, manifer, was, conservements, pennary, commany, manifer, and the Ferghaman Gradelity at the group of the Ferghaman Gradelity at the group, called the Ferghaman Gradelity prices are given, where the violence was loop worm, and other precedents taken to stong out to be proposed of the properties taken to stong out to be commanded to the properties as the pennal of the properties and the properties and the properties and properties are properties as the properties and properties and properties are properties as the properties and properties and properties are properties. The properties are properties as the properties are properties as the properties and the properties are properties. The properties are properties as the properties are properties as the properties are properties. The properties are properties as the properties are properties as the properties are properties. The properties are properties as the properties are properties as the properties are properties as the properties are properties. The properties are properties as the properties are properties as the properties are properties as the properties are properties. The properties are properties as the properties are properties as the properties are properties as the properties are properties. The properties are properties are properties as the properties are properties as the properties are properties. The properties are properties are properties as the properties are properties as the properties are properties. The properties are properties are properties are properties as the properties are properties are properties are properties and properties are properties are properties are properties are properties and properties are pr

ing every year.

26075. I gather from all that you have said that the building of these labourers' cottages does not seem in naming or these indocurra' cottages does not seem in your district to have given rise to easy friction between the labourers and the farmers?—No. For a long time the labourers accused to fight sky of going into the cottages, has now I bollow they are all coxysied. I colleges, but now a comer tany are all occupied. I think they would rather have the money and pay man and have their independence. The becare they had been in were old, and they had no pride in looking

after them 28076. We were told that in some places where the 28070, we were too that in some pinces where use labourer got his independence, the employer did not continue to supply him with unit; that does not seem to have occurred in your district?—I don't know that

is has consulted as the selection of giving in-20077. Mr. O'Brazz.—In this scheme of giving in-struction in coolery and their althing the food for the securities in colory, who gives the instruction?— The National School teacher. 28676. Is she paid an exten grant for that?-I don't

29079. Who washes up?-The children. 28980. The parents don't object to their etterares and 18980. The parents don't object to their thinks so. I legt from home to west up?—I don't think so. I legt from home to west up?—I don't think so. will bring the logredients one day, and others will weah

the vessels. 20181. The school-teacher or manager does not make 1998). The action-beaver of minages over the man my objection in No. 1988). Because down in the aught we found that the subool manager is very apt to object and say that it is adding to the work of the teachers, for which they

in adding to the work or use testevers, nor written may are not designately paid, and, therefore, they object to si?—Tray do not do so here. 26033. The managers my that the teacher's first basi-zess is to provide instruction in ordain things, and that their teachers are provided for that and not for coolery Krs. Brunn Marra,—18th August, 1919.

cleares?-I think the first instruction for a country chains;—I terms the new investment or a power-chain should be conterpy. Are not they poid to give coolory lemans once or takes a week. 20084. It is optional, I think; it depends on the manager—I have known where the teacher has come in and taken a course of incourse in order to teach the children. 20085. They may do that, but it is not obligatory on them to do set—I see. I san speaking now of tour schools within three miles of my own home, where I and at times of them they get grant and sorp at said-day

even to milk.

diminishing.

Dr. Genege B. McCarre J.P., examined, 20716. Have you many cases of tabercolosis amongst your fathery operatives?—Yes. 2007. In it_dimmishing or increasing?—It is

20000. The CHARGESS,... You are a modified practi-ouer, De. HeCaul, resident to Derry?... Yes. tioner, Dr. McCass 28901, And have 28001. And have you any experience of factory operatives here?—Yes: I have two thousand of them under my case. Would you tell us what combine you find 28001 them In-Are they boys, or girls, or men?-Almost stitlely girls.
28008. At what age do they go into the factory?-At

Sourte en. Section. 28504. And they remain how long?—Some of them for a life time.

28005. In their occupation unhealthy?—No, not under modern conditions 8800. Is the guerni health of the factory operatives resonably good.—Particularly good. 3800. Do you think they are properly nourisked for

2000. Lo you taken may not propose assume the corruption in which they are engaged harden.
2008. Do you find any exceptions to the rule?—
When a girl comes from the country, and has not been brought up to the hariness, the would that it difficult brauget up to the skill making. 2009. What wages would girls who are adopts make 2009. What wages would girls who are adopts make at the skill-rankless, 2-from 12a. to 18a. a week; some of them are very nimble. Generations before them. of them are very nimble. Governities before them acquired the trade. Of course, there are others again anning only 46, or fis. a week.

26000. If a girl is at all twistlike, in a short time the return steen her islesse will know as the setting them.

would get to be a massgar or superintendent. 26501. And then would get an increased wage, of 28702. Do facy take a meal in the factory?-Those who come force a distance four or five males do 28768. And they would come that distance?-Yes,

28705. Provision is made by the factory owners?-Tes

28700. What seet of food do they got at their mid-day how in the factory?—They need to take too, but I recommend buttermik if they council get savet milk. 28307. With breat?—Yes. They used to endeavour to take the mid-day meal as the principal useal of the but I tald them not to do so.

may, out a test them not to do so.

18708. Do they ever complain of the nearity of milk?—No. relikt.—As Do they appreciate the value of milk as a food, or do you find it necessary to incultate that importantly of the property of the pr

28711. Which, I take it, you regard as unfortunate? -- 700 28712. Do you think matters are improved from that point of view?—You; greatly improved.

28714. Do you thick they are exceled of the manner in which milk is bandled?—Tes, latterly. We have not had a case of infectious disease from a milk scenily for four or five years, so far as I know 28716. You attribute the absence of infection from milk to the improved care taken in the headling of the

2071). And no companies has been made by any of these that they find it impossible to provide themselves with a milk direct—No; there is ample milk, and good stills, in Berry. I know that from twing a member of the Corporation and from the analysis of the milk. The farmers about Derry have a knowledge of faculting and direction.

sympathy of administration of one local authority areals arrigately of terminativeness is due from tensorily because of a sca-preferences men to a dustriet in which a professional man is in charge T—Yes.

S8710. It is preferably clear that there would be no Strong, it is perfectly occur too there would be no helpful ex-periation amongst two such officers?—No. 2013. Here you much knowledge of the conditions under which children are fee-have you say protein amongst the industrial population in their own homes? 18784. Do the mothers as a rule appreciate the value of mile as a food for their ohldren?—They do.

28686. By grad, do you mean catment porridge?-

28687. Is it purely vogetable scop?—Yes. I think it is well to bring under the notice of parents that good soon can be made from vogetables and water.

28388. I suppose none of the labourous take somp?-

28680. You have not got so far in their education as that?—No. I am afraid only size ten in taken to the field; it is taken to them by their strikers in case.

29718. Professor Marran.-What force does it take? 28718. Freit-seer Internat.—What forest does it towar Generally primorany.
28719. The glandwist is more extenses thus the pulmanary-hand amongst the factory operatives.
28709. The CRUMINK—In it year opinion than
28721. The factory operatives subvertices induction is
28721. Wherever it does develop, do you find yea
28721. Wherever it does develop, do you find yea
28721. Wherever it does develop, do you find year
28721. Wherever it does develop, do you find year

have much difficulty in comming that reasonable

conditions are taken to prevent the spread of the infec-tion?—We have no difficulty in the city. We have such a steff of nurses, and from the initial stages they

constantly visiting. The district surses have made a STRESSYRMENT BUTE. 29722. Professor Marran.-There is no sameterium?

29723. The CERTISIAN.-Would they be willing to to a synatorium if it was available?--Yes, All appaceists the value of the autatorium treatment; it

who send it into the city for consemption?-I thish

28727. Projessor Mayran, Suppose there is an our-break of dightheris in Derry, and you have reason to suspect that it is milk-home, have not the authority

Commences they may, 25738. The Christon, and if the persons purveying the milk do not with imspection, is is measurery for them to get a Magistant's Onlie's—Xes, 25728. That was the profile in Belliss's—Xes. The

assor. This was the trouten in Bellinstr.—Yea. The cidinary satisfary officer is no good for making on un-vestigation like that. SSTEO. Such an examination should be carried out by a professional man ?—Yee.

28781. It is guite apparent that there could be no

power to go to the cutalic district?-In these cir-

educative as well as operative edicative as well as coretive.
28724. Is it year opinion that a local authority such as

that would be a great advantage. this vorum be a green arrantage.

25725. And would brush to be helpful in posserving
the public health?—New very moderfully.

25726. White, after all, in the green consideration
of every local authority 5—Yes.

25725. Problems Margan.—Suppose there is an out-

one power to go to use cometances they have,

really porfer the soup to entiting obse-

They all appreciate the value of fruit

28735. And are quite willing to expend as much as their means will allow in order to provide a milit diot

20737. Where you would have a large family, and only one earning?—Yes. Where the child gets sick,

only one earning?—xes. where the case the sick nurse steps in and supplies them. 28038. So in a fairly thrody populated district like this, hardship is not so likely to cover as in districts where the population is more mattered?—Yes,

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29739. Have you experience of rural diriciota?—Yes. 29740. Have the people there a reasonably adequate upily?—I allow to my own men three pints of sulls worth hettermile as they wish to take

28741. Does that quebon generally preveil in your district?—Yes.

shirtida—Tes.
2014. De you preduce much milk now?—No, but II
unde los in termer years.
2014. What I want is lover from you is thirt do
prove the provided of the provided in the control of the control o bounded in Law sam out on mosers make an accommon as also fairly good. It is 25 to 35 per cent. of feet; 8 per cent. of soilfs, and while I am on this subject I would like to refer to the value of milk in controlli-I would like to reter to the value of milk in controlla-tionship to specter. Nevering modulers sometimes think that porter in the best article to restain them, and I would like to say that there is no comparison in the value of the two articles of distribution and priva-rian soluis to porter vary from 6 to 7 per cost; aschola, 6 to 7 per cent. Committee years there is no food values

5 to 47 per sein. Community may there is no now value in allohol, or stimulants ruch as tee. I have teld you that the solid constituents in sweet milk are 12.5 per east, and 8.5 of fat and 9 per cent. of solids 26745. The comparison you have given us between pecter and new milk in very useful, because one regions pecter and new milks is very useful, because one reasons that an overwholming amount of ignection percent on that points—Yes. It would like to mention also that you will get a quest of indiscontilifier 16, and a quart of parise would cost 61, so that insternall is much better and a cheaper food, and much bealthire. 20746. The weakingman does not take the porter as

28747. It is quite a common ballaf that porter is norrishing and that it enables them to get through their laborious occupations?—Yes.

28748. In there any other point, Dr. HcCaul, to which we would like to direct the attention of the Commission?-I need not tell you the number of tuberenions eattle three are in the country

28749. Do you think that is increasing?-Not lately, but there seems to be a tremendous amount of it. There are 1,630,000 tukeroukus cova in Great Britain; and according to Professor Wilson, of Edinburgh, who has made tests all over the country, 40 per cent. of the cattle are teleproplous.

28750. In that Breland?-No; it is Great Britain. 28751. The Countries.-I can glad to be able to tell on that this Commission has had evidence from a procosional man who has had practice on both sides of the channel in two or three districts in which farrying was largely followed in England, and in a district in Ire-land, where our would not look for the most healthful conditions, and by comparation Irish cattle same to by man from from tobercularis than the English assile?... I am glad to bear it. Society that there are such num-bers of toberculous cottle in the country, my idea is that there is a great need of more volument; my idea to that there is a great need of more volument impaction to that my cut in the reality in the cut it is a cut if the cut is a cut if the volument of the tabercolin test applied. This would tend to reduce

26752. You would be strongly of openion that it is desirable that there should be uniform administration with regard to the inspection of cuttle and the strucked of health that should be maintained, and the studged of afficiency so for an elegatiness and healthy corroundings are concerned?-Yes, it is most desirable.

19759 And you think if it imposed as additional borthon on the rates or turns that it would be well expended?—Yes; and particularly the voterinary arrival. grees to apply the tuberculin test. 28754. And to see that these cattle were kept in a condition that would be likely to enable them to produce

a milk sapply for the population, and particularly for the children?—Yes. Of course, we have that in the 18755. But what I wanted to know was whether was would not desire to see the same previous that see in would not desire to see the same persistent that up in fees in Derry applying universally; because one recog-tions that although a high degree of efficiency may be executed in one place, the results may be multiful if

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there are other districts in which the conditions are not so solidisticacy?—Yes. I would also like to recommend the approximent of a motival effect in every county. 28706. Ludy Evenaun.—A whole-time officer?—Yes. 20750. A veterinary surgrou and a medical officer?—

55

28738. The Chamman.—Have you had my personal experience of typical carriers?—I have had no personal experience; but I know that their existence is univer-nelly hold now. The Sodili of typhoid have been found in the system of a potient having that disease

four or six yours affectuals.

28709. Lady Evision.—For med that you thought that an urban district copit to have the right to go outside feer area to impact the confidence in which the milk that is sent into the city is produced?—Yes.
28750. Under the Tuberculosis Prevention Act of 1958, Section 19, the local authority has power to apply to the Local Government Board?...Yea: but that is emishoris. 28701. You den't want to have to apply to the need Gevernment Board?—No. 29782. What is the price of milk in your district?—

28/03. Tush: 18, from your evidence, that you ap-grove of the bettermile, skim offit, and buster—all the by-products of mile—brug placed under the same rules and regulations as new milet—Xes.

28704. Is the long-babe feeding heldle used in year districts—We are krying to get the people to give it up. se troussoroms. 2978f. It is very dangerose?—It is, certainly; and particularly in this mease of the year.

2856 In fact, don't you think that its use ought to
be prohibited by law, as in France?—Yes. 28:00. In sec, one, yes in France?—Yes, 28:07. Mr. Wilson.—I gather that the greater part of the factory operatives are women?—Yes, 28:06. What happens to the mon?—There are some

men employed as elerks, but the weekers see all women. non employed as shrink, but the weekers see all women.
29760. In other woods, this women are largely the
lowed-winters?—Yes.
29770. The Channax.—Do they combines in their
factory occupation after marriage?—Tes, unfortunately,
shay do. I have women in the Instery with ten or
eleven shildren. There is but of work for women in
the city, but not for use. They cannot get enough

women in Decry.
28771. In there any weaving done?-No. It is only

2011. If heart any manufacturing shirts.

20712. Is that a developing trade t—Yea.

20713. They manufacture not only for a house trade, but for an expect trade t—Yea, they expect all over the week. They are providing shirts and eclises for Mr. O'Barra,-The fact that the women are

being st. sing employed in the factories means that they table-feed the babies instead of narring them?—Yes, 58775. For that, do they get a good supply of pres -Hkt-Yes 28770. A sufficient quantity, do you think?—Yes.
28777. They will poy realily to get a full supply of
pure milk for the Indast bath?—The; it is the
chengest food they can give it.
28777. Poople don't thrapy realiss that?—These people do.

28779. Mr. Wilson,—What is the infentile mortality
rate in Derry?—I don't exactly know. It is low in

2070C. Mr. O'DEREM.—Wide 66 the Women on was their ballen when they go to work; ass three any criches or belies dula?—Econs ladies in Derry started that, but I don't klink it worked very wall. The working Women peder to get old women to look after that, a working won-children orr construe.

28761. In the hubies ohth in axistence skill?—I don't

hithir as; it was not perfectioned. This did well enough for one baby, but it would not work in the cam of those or four children. 1878C. This colone would have to take the whole family of children?—Yas.

26783. And the father is not much good looking after the family?—Score of them see trained to look after the bruse very well, too. 18784. Miss McNenn.-I think you said there were a good many dirictly numes in Denyy-Tes. 28786. Do they take an interest in belies?-They instruct the mothers in the core of infents. 28756. They do the work largely done by the habies.

olubs elsewhere?-Tes.

Dv. Garners B. McCara, J.P.—18th August, 1922.

8. McLutt, J.P.—1006 Asynd, 1922.
2007f. Here many cannes are these in Denyt—
force.
2007f. Here many cannes are these in Denyt—
deces, and do not builded to posite to know their dischest that a
force.
Ease in the money provided—Voluntary
and the provided of the control of th

Magor Sir Nictional Gonzation equipment

BBD. The Controve—Two lays. Into Berguing of the Control of the Co

while there is desirable one process. The control of the process o

to deal with next to motion that half you from rote of the control, the property will be said ablest you can consider that the said ablest you can consider the property will be said ablest you can be considered to the control of th

hongal district. Dol you hear copyling of that?— 20799. We were told that ferrous devoted noce siltention to the produce of the siltention to the produce of silk, to consequence of what they had seen sooneplaced—New, they did it is my district. There are neveral cultivatives them now.

sixeral emitosoftes them now.

1990co, That shows the noncomes advantage, there is in barrier one who is willing to make an appendix of the training one who is willing to make an appendix of proposed experience of the control of th

Jounne camino J. (1983). He say improvement have brought about 1983. He say improvement have brought about 1983. He say improvement the density is due to their say improvement of the say in the say improvement of the say improvement of the say improvement of the say improvement of the say in the say improvement of the say in the say improvement of the say in the

2001. Are they holds down!—*Laborates in posting a bail of a good million; Alecticae sixtuin—*Tan, and ibste one hold of good million; Alecticae sixtuin—*Tan, and ibste one holds of that storae.

2000. One quote encognissa that, has taking the 2000. One quote encognissa and the storae of the conference of the second of the storae and the conference of the second in the second i

"More We have pretenting enterstand their was the proof accurate groundly as the All Links was the proof accurate groundly as the All Links was the proof accurate groundly as the All Links was the proof accurate for the proof of includes and the reason of the proof of the proof

Side 1. Do you think keep were a datasetive 1998—
Side 1. Do you think keep were a datasetive 1998—
Side 1. Do you was a neckeland product—They were prelately the services of the Atlent.

Side 1. Do have known specimens of their purisher.

Side 1. Do have known specimens of the purisher.

Side 1. Do you was been of the purisher.

Side 1. Do you was britten, but at any min all were a good over was britten, but at any min all we was a good over was britten, but at any min all we was a good over was a pitth design alloaded to the Side 1. Now as well a good milking over—Zen.

Side 1. Do you was a pitth design alloaded to the side 1. S

98037, We bessed a very low astireate at Killyberg as to the cells yield in that neglece. One witness stated that the yield would not be above 120 gallace to twelve mostles. That would be extremely small? If you you'll been all topother and this the members own and the cells and posted and that the members own and the cells of the limited. I climb that cells would be set the law-land, I climb

cover are the ordinary form in the law-Canda, I faint hardinate week it can very close to the matte. The world new top close to the matter of the contract, top world now think that that was an undercrimate, top world new part is flower to 110 pillots or 10 pillots.

Seeps. When do you extribute the small multi-yould so is it to the breast of ordinate keeps, or the manner of the pillots of the contract of the contract of the same candary of the research—Then. They have a discrease candary contracts of the contract of

in which to man treat of norths leap, or the minuse in which the property and the Tay here a fix a sea called "Open process", Day. They have a fix has been fed or had beside or the fixe the produce of the open process and the star. The produce of that own many most such the size. The produce of the open produce to the leaf that own many times and the size. The produce is trained and the size of the produce to the leaf that the produce the size of the produce to the leaf that the produce the size of the si

has enge, mel fast inswerd here they rigorostical them. Dept. 1 words, you on show them to immediate properties of the state of the sta

28822. Quite a good price?—Yes. 28822. For a small base!!—Yes. 28824. That shows approxistion?—It shows you how much they are able to appreciate a good thing

muon usery are able to appreciate a good filing. 59925, We will deal with the Dancegol mere for the moment. Have you thought of what would be the type of boil to intenduce facts that engine in order to impose the milk yield of the dury stock?—I have and I wrote to this Dancegol Courcel shoots it, and they never had the manners to assert me. My impression is that a fact, while we had be manners to assert me. My impression is that a fact, but have good to be the heart.

so for away from the country ore. nearer to the country own.

29327. Not a viciant cross?-No. SSSEE, Du you disapprove at a videral comesh-Tax. Or perpetation, manifestary to recombine the processor perpetation. The processor is supported by the processor of the process \$8838. Do you disapprove of a violent count-Yes,

28850. And one that would be suitable for the ser-nomdings in which it would have to live, and the food with which it would be nonrished !-- Yes.

28831. I can quite understand that. Would the people be disposed to patronise such an animal M in were placed at their disposel?—I think so.

28892. With regard to the sale of the male cormula that would not be required, how would they compare in value with, say, the Aberdeen or the Shorthorn—— thisk they would drop 21 or so.

28520. They would probably be worth all less than the produce of another breed, but the increased pro-duction of milk would more then compensate for the loss?—Yes, and you would be helifiling up a best suitable to the wante of the county Denagal.

summing to use wants of the county Design!.

S9894. In these any brawls of the question relative
to this particular district of the Roman, to which you
of a brill suitable flowing the these the introduction
of a brill suitable to make with the count that are in
existence there?—You give it as your matured collars
that the Xerry in the best built to introduce?—I did. 28805. Have you seek inted of any complaints in that region that the positions use of a Gallowsy bell had distinction to make the seek yield from the core to hard!

—I have, but to tail you the instit I don't believe it, because I went to the plane where I hand the complaints and made on investigation.

28835. We had rather a consensus of opinion on that opension along the whole western scalourd over white the Congested Districts Board have been operating for fifteen or twenty years, and the opinion was expressed

very positively, and definitely then the persistent use of bulls of this particular type had sinser beed out the prederities of milk, and that it became alone to puse had beeds, because of the persistent use of the same level of both on the cross-beed before—West you had for Echnel Mangarwin, between Enthlysias and

Girman? See It was relating the widenes we had of the Commune district, and I had reason to know that the same policy had been powered by the Communic Districts Board over all that writers see-teart. know it was the custom of that Board to introduce Galloway halls, because of their hardroom and their shilling to foreign for themselves in the mounthing parture, and we heard the result of that at Claim and elsowhere, that it had almost mixed a bread which was useless for milk production?—I examined into one or two cases whose a complaint of that kind had been made about the Gulloway, and I found the facts

Were not se stated. See St. You keep a shortheen heed in Menaghan?— No. I don't. I keep a mixed beed. The foundation of my heed, I may say, was a dersay even, and I have this mixute what you don't often find—a cow that gives 1,150 gallons of mill, and I have a heiter two years and five mentine old which gives short 1,100.

gamen. How was that helder bend!—They are all bred by the Red-Polled. 18860. A pus-bred!—Yea. I have imported Red-Polleds from Norfelt for two or three years. 28801. Have you bought them from herds in which milk records were large!—Yea.

28842, My. William .- Too shuck to the one man's

2846. Mr. Winner—Too stude to the one man's head all the time?—I know the good to disk very 2848. The Channeser—May be all the time? See I have been a seen as the see I have been a seen as the seen

28848. What type did she turn out?—The weest lever saw—sheddly the worst. I kept her me the celf on purpose to sae have she would form out, and she has all the separation of a good million.
28800. It would be intreasing as hares if the themseteristics of the grand-darm would be repediented—I have kept her for that purpose.
28831. Pothony Markay.—Here did is shab—She
28331. Pothony Markay.—Here did is shab—She

2885). Professor Marran. 2002. The CHARGERY.-For are keeping her for the coalities may not be reproduced in the second grown?

2883. Do you ever cross the Bed Polled with the shrethcent—I have done it now. 2893. You have not you had enough experience to coulde you to know what the result would be \$\frac{1}{2} \cdot \frac{1}{2} \text{.}\$ 2893. Do these over norse their own observe—No. 28935. You don't keep mife records regularly?—

Yes.

28837. Do you think it would be belyind to the delay farment if they get into the habit of hosping theorem or control.

2883. The process of the habit of hosping these records. I want a within special that I was beginning at the wrong and, because you must have the cow first. Unless you turn your addention to getting a bell from a peoper multing strain you will not have a cow. 20000. Professor Murray.—How may we find out that without keeping the records?—You must go to

those who de 55859. The Chamman,—You went to the heed where you know the records were kept5—If you want the mile records you have the essentery at your doors. milk records you have the created an your coors, 28800. This is gifter true it is created resource, but it does not another one to generalise from this point of wher; the main object of the keeping of the records is to convince a con-keeper that certain satisatis to his head are not possible to head, and to exolds him to determine which one prefeator and unspecifiated, If it can be established that a certain cow in not profitable to keep, the elimination of that one from

increase the milk yield and thereby make the mill more plentiful?—I grant that. It is self-evident

ir Nicappas Gossmar,—18th August, 1912. but coincident with all this you must do comething to enable the man to get the substitute. What I wish to explaine is that you must not rely altigather

on one thing, because on a man becomes skilled and more intalligent and gives to look for his substitute, where is he to go?

28031. But you think the leeging of the records in helpful?—Yes. The great difficulty we have about us in the small farmer. The unfertunate animals are starred, and the leads are geting to works because they wan't form them. We have in Ireland as many over won't form them. We have in Ireland as many cows as we want. There are four and a half millions of people and a million and a half of cows, and you have to calculate what one quart of milk per day will do.
Seeth. What one does also at is the increase in the finess. What one does also at is the mercese in an viold. Do you happen to know whether the working population about your residence get completed food?-They do, because they are nearly a

28800. But the ownership of a new does not necessuffly satisf that the person owning it will have a continuous apply of milk all the year county-They ere not.

28604. Three or four months in the year they see
mark-cells without it?—Yes. They come to se then for milk and no metter how low our supply is, the perch

steers get milk. singly get mm.

18866. Professor Hirrian.—When do your core
color—all the year sound?—Yes. The farmers all try
te have Apell and May calves. They dan't go to for have Aper and May calves. They don't go to not leter desyring at all.
20206. The Chisaman.—Do you grow may calclecount Text.

20067. Do you find them halpful in developing the fit yield?-Yea. 28558. The farmers don't rearest the reconstruction of food they can got from a small quantity of farmers don't realise the excessors secrets of food they can got from a warn, when he was not hardly press is that their heads, in the Theorem and the second treath because I said I would gow wheat, but now by the foots of seconds many have wheat, not now by the foots of seconds many have wheat, and the same time applies for the second many have the second to seconds many have when he was the second to second the second to the

essemple many have wheat, and the same thin in the case of subbage. They are growing larger scale now as food for their stock. 20002. And meet examined food in int.—Yes. 20070. Lady Evillant.—We had evidence in Laperick from the county instructor that he had been Extensive from the country instructors that he had been bring to personale the small farment to grow calcul-room, and he said he was a small for public of heavy green. The error was was to D. De space of that time and again is April, and he will first from an green food to this court—I shad the arms bing and was weederfully appearable; they grow to a great latha.

2007). He west us a photograph of the crop in April, and it was well above an ordinary meet budget, and it was well above an ordinary meet budget, it had been out to December 1—3fles was not the out in December, but his lead was perhaps bet 2577. Mr. Williams.—Do you still loop to 1 mathed of witter-mapping 1—3gs. his land was perhaps bett loop to this 18870. The experiences has been expressful?-Yes, 18874. And have some of your neighbours taken to that also? Yes, in a very tentative way. Sterra. The Courseau.—When they realise the value of it they will go in roose for it?—There was a man in my house yesterday looking for cabbage used.

28976. Mr. O'Barre.-Do you think that the to 289%. Mr. o' manue.—Lo you think these see semments have our cut their eat coop sufficiently early off the leaft to be able to till it to just down one crop of green feed such as hardy greens or rape?—In a good season, ole sets is, it cate everything down.

28878. What do you grow-rape?—In Monaghae?

38879. Yes?—I have not grown it for the last coople SSSYN. Yest—I have not green it for the stee excipa-years, but I did green it. 2009. You have not kind putting down basic sing the year turning to get rid of the finger-architece?— e, and though it has been helpful; it has not credi-ey, and though it has been helpful; it has not credi-

Yes, and though is has been negated in an new creat-cated it. I go in more for strong irrae. 20881. If you cannot grow the termips what do you you's—Coldings and early group and mangeld. 28865. The thousand-leveled hist, do you gray to for.

28680. Do you find it unded for milk production?—
Date is nothing to beak it. I will give you as then
and year when we commonoed the girl feld me that
he inside west up eight list. I could handly put it
to the college of the country of the country of the
tent of the college of the country of the country of the
tent of the college of the country of the country of the college of the country of the country of the country of the country of the college of the country of the countr last year when we connecessed use get test see man the finiter was up eight list. I could hardly put it down to the college; after two months I slopped the cabbage and satellitated mangolds, and when I the cabbage and substituted mangolite, and when a reent to see the girl again, she told me that the hutter

went to see the grid again, she sold me that the instantial goes down twelve his.

26804. The Chamanan—That was a very risking results—That. I leget the cover ten days on the many pide before I wied these, and the instantial way of the contract of the co are not so high on before, seems about you find their core on in the winter if they are keeping those mile!-Hay. 20097. And a little threshed straw!—An old can would have unthreshed occu, and it they have it they give been and Indian meal. given bone end Raddam round.

203333. Do for given bailing for their own one in
that may be the sent good carryin be grow intent.
in a coop that requires a great land or other, and
is a coop that requires a great land or other, and
bestless, it is not a existable soil for haring.
20300. Decourse it makes or concaling from the
intent of the coop of the coop of the coop of the
lifeti it record in grow and grind to youngetfreed don't
lifeti it record. They can grow much amodized cats.

5800, Mr. Writest.—I see that you are quite
activities of opinion that of the two types of cattle
trade descring in the more valuable from the spoint of

troth discrete in the series vertextal free? So, point of two of the contrary?—I would proud you as series or fact, A, seen had sed a telligible for 280, and all the convention of the conventi Conside are almost worked out for herf. Therefore, the raising of the beef in this country will become more valuable and become a danger to the milk. I am valuable and peccess a danger to the mate. I am speaking from historic-doc. 28000. The cobbings that you field your cuttle on, was that optimary enabege?—No: it was thousand-

58

Dr. H. S. Monatages apprehend 18650. The CHAPMAN,—I understand, Dr. Morrison, year are medical officer of health of Aghadowey district?—Yea. 2890). Have you, as motionl officer of health, ever been called upon by a subordinate officer to investi-gate the conditions of certain places and to report 18894. And coroner for the Coloraine dension?— Yes, and president of the Aghadowey co-operative

Zin, her powers of the Colorains rated district?—Xes 28866. Is that in the Colorains rated district?—Xes 28866. What stops are taken there by the rust 20006. What stops are taken there by the rural extend to put into 'cose the provisions of the Daktes and Coreshells Order 5... They have a veterinary suppose. appointed, possibly two, and they inspect the dairies, and the milk shops, and the byres, and report to the 28807. How long has the Order keen in force?-Scott roug not not trobe seem in force of the fine it was premised the fine it was premised out to the first trade of the Order's No. 28696. Mas the Council ever instituted prosecutions for areaches of the Order's No. 28696. Nor have they ever found any mecanity for deling soft—I which you.

secon 3-Certainly.

29991. Constantly 5-Yes.

2992. Speaking generally, is the condition of the suries in the locality actification 7-Yes.

29905. And it is also part of your stay to inspect the conduced—No.

20004. You have nothing to do with the bytes?—

No. 28905. In some districts the medical officers in-spect the hyrer. Do you happen to know under what divormalizates this in doze?—In some districts perope they ere impectors appointed under the Order. 20001. I never based that they were appointed spectors under the Dairies and Cormbeds Order, has we had ordinare where a lay impactor was appointed and a veterinary surgers was not, and that the

medical effect undertook seem of the duties in regard to the byrest—There is nothing like that in the Coloraba union. It is left antirely to the veterinary suppose, If there was a case of infections disease the medical officer of health would, of course, look to the lyres incidentally.

a suggest of infection?-No; I have never been conviscost data it was the course.
2003. You have supported it from time to times?—
You; we are adverse to the look-out for at.
2600. In such chrematers and by you make an ex2600. In such chrematers and by you make an ex2600. In such chrematers and you will be
seed and the core are look!—Xou; we would order
them to step supplying mill.
2610. You are also pessions of a commonly—Tax.
2611. In this is legge consumery—We have a term-

over of £15,000 a year. 18912. Is that in the milk teeds alone, or is at a co-operative society?—It is dealing with milk and

25915. And selling nothing but mile products?—No.

\$8615. Were you ever saked?--We sent it once to 28916. Have you ever been asked for a small quantity by local people?—No. 18927. Have you say stuffing attached to your soutcel countery?—We have three.

senical countery?—we mave turne.

2803. Have you had reason to complain of the
condition in which the mills is cost in, in regard to
clessioness?—Geomiconally it happens that it is not what we would like.

S8019. What happene?—The manager returns the 120. 1880). In it taken by another creemery?—No. It

is taken home and disposed of by the owner.

20'01. Because we have been told in other districts that if milk is refused by one oreamery it is taken to the next and reasived them without question?—I don't think that is possible, because the areameries are so far spart, but what probably happens is this, that if we refuse a mon's milk he takes his whole

sast if we return to the man as these as weekers as where samply to stocker place. 20022. Do you think that the condition under which add is seat in has improved in recent years, and do you think the enforcements of the Order has been helpful in that direction—Well, I don't know that it has done very much, but the people are getting educated, and the acceptity for elevatiness is down-

601655cs, and the same of the 2004. Has an corram summy bear sensessed proceedings for breaches of the Order, to your knowleds: 1—I don't think they have. If any prommendation is made it is compiled with.

2025. You don't find them contensators or obdurate?—No

2990. And the improvements suggested are usually carried out.—Ics.
2992. Have you a practice amongst the children of the industrial population.—Aghadoway is a rural

of mandistrick.

20020. It is not a large town?—No.

20020. How far from Coleraire is R?—It borders

20020. How far from Coleraire is R?—It borders

Coleraire. It has a population of about 5,000.

Coleraire.

the district?-Xes. 2001. How are the factory hands off for a milk supply?—They have no trouble. They can buy as much as they like for a penny a pint. 19602. That is a reasonable price?-I think it is. \$5933. Do they appreciate the value of milk as a tool?—Yes. The children are well looked after. 28034. Sufficiently nourished and fed?-Yes.

29635. Healthy and vigocous?-Yes; the only course we have is feen emission that are tot on bottles. The average woman needs a good deal of instruction and advention before she can feed a shill on the bottle.

\$8906. Lady Evenan,-They use the long-tube feeding boatle?-Yes. 26667. And nover clean is?-They do. 29230. Miss McNzma,—As well as they can?—Yes, at no matter how well it is cleaned it is not

the condition that you would like to see them kept?-28840. Are any of your patients ever deprived of the lensicount you order them by resear of their inability

procure mile?-No. 28041. You have heard no such complaint?-No. they ean buy male for a penny a pint. 28042. And there is no objection to self?—None. 28043. Do the farmers who supply milk to the swameries retail small quantities if asled?—Yes; to their own neighbours or employees, and usually as a complishent. It is a troublescene matter.

mparisont. It is a troublesome matter, 20944. But the trouble does not prevant them retailing its—No. ing is \$-No.
2094s. In the milk of a good quality \$-It is about \$8.5 in butter int. 28046. Do you sell say separated milk at your commany?—No.

20947. The expected mak is always returned to the

man r—zes. 20948. Do you know whether that separated milk zeed for circleing purposes?—No; it is used for vise. 26049. Have you may knowledge of the tests of separated milk?—Tes. esparious milar—as:
28900. In it unpaintable?—No.
28901. Does it go sour specifit??—I think it would.
28901. Does it go sour specifit??—I think it would.
28902. What is the temperature to which your
milk it related in supervision?—I't depress.

28055. Do you postcurise your cream subsequently? 29354. All the cream?-Yes, and the gream to raised to 300 or \$10 degrees. But the create it reseated to 300 or \$10 degrees. But ran.—How long is it kept to that temperature?—I am not quite sure. 30030. In it pasteurised by the finish mathod or by the bolder mathod. I am not sure acquainted with

the method.

2007. Is the milk passed repidly through?—It is kept in an immense hig beater, but for how long I 25955. Mr. Wilson.—As far as I remember this resonery, it has a large task with steam pipes that years through it with a circulating medica.—To: a thinking of the relapresting plans. The heater is a

timizing to me entrance of the provided circular things.

2000. The CRAIMAN.—Is it live steam?—It is shown from the belief.

2000. Him McCrime.—Is the milk kept in motion while it is in the heater law. The heater has been supplied to be with a guarantee, and the meanur assures on that it works perfectly, and fulfile the purpose for which we spent the money. purpose for which 29951. Mr. O'F purpose for which we spent the money. 2005. Mr. O'Britto.—Ferhaps you would know whether the thermometer takes the heat of the ornam whether the thermometer takes the heat of the ornam y things that is what is done. The as it comes out?-I think that is what it does.

as it commis outer-it units that in what is occa. Zin thermomenter in fixed in some way that you can see it cotaid. I have tested it myself repeatedly in the ereamery and it always above 200 degrees. 2992 The Charmay.—Do you invariably pas-2878a NR URLDMOG. TO Jon moreous publishes your cream T-Yes.
28703. In your better seld with a guarantee that it is made from pasteurised cream?—It is self under the Control Scheme of the I. A. C. S.

the Control Scheme of the I. A. Q. S.

2004. The Control Contr Through the Buther course; bettere or use i. A. v. c., which is adopted in Aghaderey, we have succeed my which is adopted in Aghaderey, we have succeed upsatisministics of our eream and have voluntarity submitted courselves to the disappline of rigorous important, and we find it pays. Other creamonies will have to full in or this number prices, or die, so will have to full in or this number prices, or die, was fave to say in or says minuter prices, or one, so in the end the grading up of Irish oreancetics, already well started, will go on and become unversed. The manager, who is very skilled, and the inspector of the L. A. O. S., site bold me that the cream in really

28900. The CHARMAN.-With regred to the milk 20900. The CHAIRMAN—WHA regard so the more supply from the cowe that are kept by dulty farmers, have you may knowledge as to whether that is increas-ing or diminishing?—It is diminishing. It has been diminishing for the last four or five years.

Dr. H. S. Mosscoop.-18th dapart, 1922.

2008. To what stone do you attribute thest—I thank the falling off is due to the introduction of the production of the falling off is due to the introduction of the falling off is due to the set and out milliproduction. On the fall is due to the falling off is due to the recordion of the milliproduction. On the mill public—No. 196 fall on the fall is due to 15,000 gallene. I don't know then you can depend on the fall is due to 15,000 gallene.

about air this observation was the six any spream of the six and t

unitation as one to other prospectives has consen-20071. No a large transfer of own being kept's— I don't white to.

18072. As you gathing a larger proposition of the 20073. And consequently laws is hope at home for the larger and the family—I with they keep what they that they require.

18072. The consequently laws is possible to the contraction of the contracti

when the yearship energyl-1 think large are related to the yearship energyl-1 think large are related to the year the year of years to know the yearship energy are not the yearship energy are not the points would dray the heat find to belie diffusion at color to increase after theyer.

1997a. That has been represented to us to the related to the yearship energy along have been represented the world drawing a three parts of the yearship energy along have been represented that would be miteratived by any farmer for a memory, 1997a. You know specify lower allows married present the yearship energy and the yearship energy and years of the yearship energy and year

The hot of original properties of the properties

observed. The Craimexx—What built do you expected with the country from a small postular point would be misse useful from the suffice point of view that shorthours—I don't think you can have below than the shorthour has do scheen for his million of the shorthours of the shorthours of the sides. The shorthours will be shorthours of the shorthours of the

general they have been enforced to bring in built from harts where needed were loop and where the mill-preducing qualities of the date are on record, Are three any shortburn farred kept in year district?— Yes.

18980, Pure-bard shortburn county—Ket many. I have, at my own exposes, introduced militing sheethours, and my sleet extrins a small head down, as

Some retreases account (form—nece may, a point, at my own expans, theorine of militing shortsome of the control of the contr

the first assectial to prove that they were good mitch courty—They are reading shirt from 12.2008. In these circumstances you could not necessite the quantity of milet—No. 2009. Have you in the purchasing of these seminals refleavement by the size of these seminals

2009). Have you in the pushasing of these snimals endeavoured to buy them from herds where records were kept, and where the mile standard bee reached a certain standard of efficiency?—These cause from Lord Forbachild's bare

20000. In there my increase in winter dairying in your districts—No, and we don't think it would be partitionly. and that it could be made a youese.

2001. Here is been experimented on —No; surge in the creament, where we have given posini prices for winter milk

2002. What poise do, you think would put for the 2002.

for winter milk?

\$5000. What poine do you think would pay for the
production of winter milk?—Superace a gallon I white
would pay.

\$5000. With the return of the separated milk?—
\$5000. With the return of the separated milk?—
\$5000. How many days in the week is the winter
does yeer example, week?—These.

2000. In never works on Sunday?—No. 2000. What bapers to the Saturday night's raft and the Sunday mercung's milk?—Was farmers shown in for their corn use.

for the labourers—14. When 60 the crus-2000, Frobenous Mirrans—When 60 the crus-2000, Frobenous Mirrans—on the lab Peterser, red at leaves by April. 2000. So there is a good side of mile, and spitting and early summers—144. 2000. It becomes much loss from shortion in year 2000. It becomes much loss from shortion in year 2000. Becomes much loss from shortion in year 2000. Here you wave known an apticents of the accept this cours—Not. I know it happened in the screening this cours—Not. I know it happened in the

2000. How you can't known in syldenic of its stronges the cours—Not. I know it happened in the Coleration misses.

Coleration misses.

Coleration misses.

Coleration misses.

Coleration misses were been of the veterinary, agoon solving into sommit to order the stampher of a breast his supposted of bodg tuberculous—I don't thirtie on, because if he forced a tuberculous beaut the

former wurld dispose of the varieties costs in former wurld dispose of the varieties of varieties o

given syrrejenne of westing disease, and the voteinness, and recognition shift has had no facile it was to the content, and a superior shift in the content of the content

seation.

20013. Sume prefection, at all create, that you might be beyong a sound beautif—Yes, "Soil20. In: Wanne,—Was it you or the valences; sergeou from spothed anything wrong with the animals of the problem of the problem. He thought it was that soil be given him a removing track, but that feeled.

SOID. The CREATMENT—How long tool he hear in your possession through a month of the Company of your possession through a month of the Company SOID. And he had not hear sepond to any reagh seatment—No. Join I think it was intended white no white did bely a build-browing themse seld in one a core white did bely a build-browing themse seld in one a core white did bely a build-browing through the seldting a belt of the company of the company of the to be, and I think he was infinited in that way, and he can be the company of the company of the belt of the company of the company of the hear that the company of the company of the dide, inst the was believe the Order was put into Inco. 2015. M. Whyshe—Woodly you lot you so he

2915. Mr. Wrass.—Wood yes look upon a build free.
2915. Mr. Wrass.—Wood yes look upon a build field kind as disaprous to the cores that would come to inn?—I would not.
2905. The reases being, you don't think the cores would take the infection?—I don't think they would.
2907. And the caires would not probably either?—I don't think

2003. Products Mirror.—In world all depend, of section, where the interestives before most —featurally. I think the risk in that report to the regard to be impossible of sections, and the risk in that report to the impossible of sections, the regard to be impossible of sections, the regard to the impossible of sections, and the regard the present time to expect the regard the present time to expect the regard to the impossible of the regard to th

evr1-well I while that these statistical components of the winds that the winds the winds that the winds there is not the wind the winds that the winds the winds that the winds the winds to colour sound of the winds to colour sound of the winds to colour sound of the winds to wind the winds of the winds to wind the winds winds and it would not found that winds the winds winds with the winds winds with the winds with the winds winds with the winds wi

20040. Whilf steps have you taken for the disposal of the creamery sludge?—We put it into the river. 20041. You have not been prosecuted in connection with 145-25.

with (17—20).

2992. And the sledge is not detrimental to the fish?—No.

29033. There are no fish in the river?—No.

29043. The disposal of the sledge has given you no

2004. The disposal of the shedge has given you no trouble.—M. Wisser—Cl. cours you on no great controlled to the shedge has given been been first and the first and the first and the shedge frow his shedge frow his shedge frow his shedge from the shedge f

ighteen or twenty gallon cars meens the water. 20050, In that trade increasing or diminishing!-Latterly the manager is going in for it more.

29351. In it more remunerative them making laster? -He thought selling it in eightern or twenty gallon come was not mees reconscrative; and lately be has gone in for the little way, as he thinks it is recon recognitions 29000. Professor Marran .- Je there a demand for ri?

—Xes.

2005. The CHARMENS,—Where is it sold 5—To shop-keepers in Belfast, Derry, Colorsins, and Portrush. 2006. How is the stresser population in Fertrash novisited with milit—Locally. 16066. And people make arrangements to provide it?

2006. And there is no difficulty in getting its—No; they get plenty of milk, and pay good prices for it. 2007. Do any of the residents in your locality send milk to your occamery?—No; we are too far away. 2006. How has is Poriumb from you?—Webry 2006. How has in Poriumb from you?—Webry 2006. How has he was a second control of the property of 29049. And none of your excitation son nearest-No. Ballyrasheen Creamory is nearer to Portrust thee we 20060. It is your opinion that wanter dairying won't

2000. It is your opinion to see that the arrival was a 2000. Problems of the case intell 2000. Problems of the case in t

have been told that.

20066. In that your experience?--- No: the needle 20000. In time your experiences—No, one propte death fred their cottle well in the winter. 20007. If the cow is not properly fed, and if she is allowed to start and maintain in her flush period a low yield, hidd cow is too usery to company convenience, the Agoil or May calving cow; but if she is properly fed, said yearsites is made for providing her with secu-ical food that is mile, rependenting in that, you will find that she is a better duity servant?—You here to balance that with the series treatle surveyed. You have

that with the extra trouble involved. You have to manne for on the grass, and she is no trouble.

2005s. And you have also to belonge this—that with the existing system you have only an income for a limited period of the year, whereas in winter dairying you have an income for twelve months?—We wanted the Department to carry out some experiments with us and they would not do it.

and they would not do ra. 1996. I think it would be far better if the farmers surind out the experiments for themselves, and proved that they could accomplish these things. That would that they could accomplish these things. That would be much more heneficial?—Xes. I think they are ready enough to adopt soything that they ind pays.

2000. What is the difference in the price of winter briter as compared with summer limiter? What is the has mouth's price for relik in your creamery?—It was satisfed has night, and I cannot recall the figure. 4:20d. was the average price less mouth.

90000. Helding the coassesy committee or manager represents for the condition of his pennises, and for the carrying out of whetever improvements relight be posited out by the person appointed in the way you posited out by 19033. Professor Merran.—In other words, year would recommend that commercies should be increased? --No. 19023. Don't you think you would gain what you here been selve-strag if they were learned?—Yes, but who would license them?

has who would necess unem?

19023. The Department?—I would be sorry to give
then the authority to any whether a cusmory should D91.

in licemed or not.

\$6000. Dod you think same central seatherity
should have power to grant Honores and withdraw
from Y-Wool if would be ventro.

2003. To is only following or what you have been
segmating 8—That is only a limited sushoutly, and
you suggest that the whole creaments of Ledand
you suggest that the whole creaments of Ledand

you largest some work wrone creaments on accoun-sional to under the whim of a man in Doblin one work have only a thoroetical tourwindge. That is the very thing that the commercia are dreading. 2008. It is always an excuss if a man makes a suggestion that he is only a theoretical man, not a suggestion that he is only a theoretical man, not

priotical man. The CHARMAN,—What problem mee. The Community qualifications would you tonis on the offeer you isolate possessing!—I think a should be a sum who would be familier with all the should be a sum who would be familier with all the should be a sum who would be familier with all the should be summed to be suffered by the should be suffered by the should

1903B. But I think the ordinary inspector they have going around should be equal to their.

20729. Mr. Wilson.—You think there should be one or two positional disperies for Union who would be consumed to the more.—That would must me.

he continually on the move?—That would ment my be continually on the redinary medical officer of health assessment with a symmen subsuggestion. The cedimary medical officer of builth does not understand plans, and the arrange substantial properties of the control of the co

of putting them under the heel of a Dublin Board. of public them utder the heal of a Dublic Board. 25000. Prelaisance METRAM—There must be come control authority to do it directly?—Thase men ser-sized to the Agroveltural Department. 20001. The CLEMEAN—You would make them others subject to a certain cortext, of comms?—You. Professor Metham routh give them the powers of great-ing or estempt liseance. I would not go so far as that

test.

29032. Professor METEAM.—I think I may talk it
that Dr. Marrison and I agree. It is only a question
of detail?—Certainly not. I am particularly strong on that point. on that point.

19000. The Chairman.—At all events we won't
speak of what authority, but you do non-replace that
these officers to whom you rafer should be respectible.

to some easted authority, who would control their well and give them specific instructions as to what they should do?—I would go that length. 2006. You would not leave them to their own sweet willi-No.
2008. Professor Merran.—I knew that we could spee?—We are very far apart. 29000. The Cramean.—I quite understend what is a your mind, Dr. Morraen. You spoke of the milk

2000. The CRAINCEAN—I quite understard what is your mind, Dr. Moersten. Too a speke of the milk ridd of the come having distribution of other to the interfaction of the absorbsen while. It shows any begreving the milk supply than the shortbern-levie. I shirt has shortbern will faith the two qualities of the property adopted—base and milk. I am sirvid that they will need the the boat.

2007. That view has been brought under the notice of the Commission frequently—that the nells qualities have been sacrificed to the best-producing qualities!— 20088. Are the creameries efficiently managed from the point of view or clearliness, as fer as your cher-vation good—Yes.

19009. And sufficient care is taken in order to score that the product of the dairy will be dealt with in a healthy inshires?—You.

Dr. H. S. Mosnorov.-18th Asquet, 1919.

2007). What would be the winter price?--Probably 54, a railon or 5;d.; but I execut trust my memory for 20072. Because we have been told that so other districts the difference is very much moster between the summer and the winter prices, and that in some phone the winter price went up to \$4, and \$2.7—Yes. 20073. Mr. O'Bezzo,—That would be for only one

month in the year or two months.

The Caussan.—Xou think that 6d. a goline would pay for winter milk?—I think that would easile them to o in for winter dairying. 20074. And do you find by the price you can get for the butter that you could not affeed to pay 64. a gallon in the winter season?-There is an approach expensi-

ture on the small quantity of milk deals with. We considered a plan by which the expansitions over the whole year will be equalsed.

whole year will be equalised.

20227. We have based is meetiar place that the saston was 10 charge in the piloter season only the country death with a sastonet—Those is when we not binating of stying. Up to now we had treed to give 400 or 240 owns on the modell's milk than we were 100 or 240 owns on the modell's milk than we were 1000%. Even that tild do to hing it up to the standard they would have been in profitable. The standard they would make it profitable. The 2077. Lady Evenush.—What guarantee have

2007. Long Eventure—What generates have you that the ones amplifing your occusions with suffix see perfectly healthy 5—We have no goawatee. 20078. Do you think that there improve that you speak of should with your creamery and import the cover bord—No. I would have that to the local seems bord—No. I would have that to the local authority. 20079. Do the local authorities do it now?—Yes; their inspectors to round, and look at the bures and examined

st critic.

Second. Done not that give you a guarantee?—A cartain smooth of guarantee, but no one would wouch any-thing for that superficial inspection. 2008). The CRAMMAN,-45 all events, it is better than nothing?-Yes 2408. One receptions that with the most exertic supervision something will energe?—Yes, 2008. Mr. Winson.—I see you say in your summary

serious art. Window -4 see 500 say in your summary of svidence that you do not approve of gents in your neighbourhood!--I do not. The district that is not side to corry cattle or the poorer class of now about he depopulated, and let cut, and the people provided

The tang enter-near.

2500s. Yours in not that alons of srea?—No.

2500s. You are able to keep a dream class of sows— 29080. And you think that the goats are a nuisance? 20067. Would that apply to the better class of goatthe four or five quarts a day goath—If the woold yald then quantity, and not cat the bedges. 2008. The Catamos.—No grasmates will be given about the bedges?—The Ulater people will not have

onything to do with an animal that would destroy their 2009). Lady Evenue,....Why not tother the goals? Life is too short to tetler goals. Goste in ou bourhood are not popular, and we don't want them. 20000. Mr Wittson, I see you also say in your write of evidence that there is no injury to the public proces of evidence upon there as no toputy so the putter health in your district due to the scarnity of milk; that facusers willingly sell the labourers and artisans milk Hencers willingty sen the intercrets and arrestes more at a penny a pint, and that it can also be had at the creamony for this parent—We would give it to anyone at the creamony if an application was made to us.

2000). If they came along with their penny, they would be able to get it?—Ten; sterihaed if they liked. 20002. Or new milk if they obcous?-Yes.

20000. As a matter of fice, that tends has not been developed?—No; there is no demand. 22004. Do you know how the inhousers, particularly hose Eving in the union cottages, get their milk?-They get it from the adjetting farmers. There is no friction between the farmer and the labourer, and there are three hundred of these new cottages in our district. They get the milk the same as the nea working in the tattree, e ponec 20065. Have you happened to notice any change is

ba?-There is a great deal used about the homes where they mover thought of using it. Even the labouring class will hey leater at the local shops, who are provided from the creamery. 2000. So, from what you see in your own district, there is mere milk being used in the form of better now then there used to be?—You.

there is more mass often on the contract of th You may be seen a sample of every day's mann-fecture. You don's sell any botton except with the elemps on the and if any fair is found with it the sample is there. You one compare the butter with the sample 20099. The Curarman-And if any elleptions are 50000. The Currany.—And if any ellopations are made as to the condition in which the brilk served at its destination you can then refer to the sample?—Yes. \$1000. Mr. Winess.—Who does the insuration?—The LA O.S.—Mr. First. 20101. That has nothing whatever to do with any

2000C. To in voluntarily done to the interests of 2000. To in voluntarity done in the interests of grading up the Drish butter?—Yes, and to keep up the stardard reputation. 2010. The property of the 2010. The Courtest,—What is your principal market across the water?—Again, six, I am straid I can not tell you. We send a good deal to Marchaster, I think, and Birmingham. We find Beltest and Gingow think, and Birmingham. We find Benau the vesser-steep. We have been trading with Atcoden, and we find that the Scotch—although they have not that reputation—give even a botter prior thus the English.
2004. Mr. Witson.—Do you know what would be
the quantity of milk taken in by a weekingman's wife?

Not more than a pint of mile a day 20106. You would not conside the 2010. You would not consider that adequate?—No. 2010. Why would she not take in meen?—She sould save it if she likes, but they don't like. In the man, they just get it for creaming their tes.

2017. How long has the Aghadowey Creamery boss ceking 3—Thirteen years.
20108. Do you notice any change at all for the bester

or wome amongst the working chance with regard to milk?—They are advanting in every way. The change milk?—They are savenessed in exceptionary, in the last twenty years in extensionary. 20109. The Chamman.—There is a hotter standard of 2010). The CRIMMUR—There is a better standard of bring?—They and thay are better elimited, and get better ways, and thay are better classified, and get better ways, and have better havine. The whole angeet of the country has been changed for the better. 2010. Mr. Winson.—Do you find that the believe in the schools are beadily and strong?—Xes. I submitted this evidence to the committee of my creamery has trained in the classified of the interest and the size of the committee of my creamery. hat right, and they instructed me to state that while

thair ob-operative creamony is doing an absolutely about the second of the second of the second of the second of the profit and the process of the process o Sittle some restrictions.

2011. Professor Marriss.—You say that there is a shorings of milk in the winter season?—You.

2012. Den't the labourers find any difficulty in 20112. Den't the labourer find may difficulty in string milk in the winter scanes?—I am sure they do, but the farmers find a difficulty too; and you cannot just run the farmers' come with the object of providing

railly for the labourers. 29118. Would it not be another argument in favour

2011a. would it not an another argument in revuer of wisher dailying 5—Yes, but it is not produced. 2011a. How long did your emperiors hard—You mean quintifising his winder supply? 2011b. Yes—We are concruing it on still. 2011b. Is has been going on for yourn?—Yes. 20117. And still, despite this inducement you were

ring, your suppliers are making no effect to meet you? They are making no effort to meet us. Winter dairy-2500 yet fracting of the control is made in the control in the con the question-have you found any difficulty with your market by reseas of your heing only side to supply for names by resem of your name only som to say a limited period of the year?—Yes; we look badly

2919. You had to break with your ountenant—Yes, of to undersell in coder to get back our matomers. 99193. That is enother argument in ferous of water sirpnig?—Tee. Here is a further argument, if you 125 dairying?—You liters on the core is said. chirpup.—Tee. Here is a further agreement, if you work it. The ever is said. So is is before to encounted in the control in th

this cown as Derma.

19122. As to gents, I suppose as a medital man you have no objection to them?—No.

19123. And you would rather favour the keeping of goals than that people should be short of milk?—Yes; goals than than people mount to source to and the bedges, and if you can keep them from destroying the bedges, and greing four or five quarte of milk in the day is and giving four or five quarts of would change my views of them. Width coage my work or mean.

20124. As regards toberculude, is there much of it
excougt the human population?—A very great feel.

20125. All forms of it, I presume?—Yes; but objetly

pulmonary.
20120. Have you come to any constrains in your count. mind as to the probable source of infection?—Yee. I believe a great part of it came from the industrial centres. Our people go over to Scotland and industrial centres. Our people go over to recomma and minimum centres in England, and amongst other good things they

get they continued patholic.

20137. Mass McNettle.—They live in the worst
quarters when they go?—Tes.

20138. Professor Marray.—Have you ever come scores cares that you thought had been of bovins origin?

If think that in the case of a child fed on the bottle

to disease might come from the milk 20129. Mr. O'Burre,-I see here in your speeps of eridance that your recamery has a turn-over of \$13,000? Yes. In 1910 we had 500,493 galleon of mile.
20180. This year you say your milk supply will be increased by \$0,000 gallons?—Yes.

2010. There is a question I would like to ask years about this winder surper. You say in your points that coules you can per you in print point group regists that coules you can per you in print points of the group of the per years of the group of the per years of the group of milk as the year. The average of Breland is below that, and up here—I don't know about your district, but in most of the districts—the cover give very little more than 200 or 300 gallens?-300 or 400 gallons I would

2010. The question whether winter datying pays are not depend any much as the quantity of milk the cent gravel—Yes.

The property of the prope 29133. The question whether winter dailying pays or

2010to, Mr. U'Hillou, LI you have a com grung Loos, pilees the dees not by any menus cost deable the amorni of a cow gring 500 gallous. She will probably cost lees, because very often a bad miliar will do nothing but each. The more milk a cow gives the better will be paid. 20107. How long does your creamery give the 6d, per gallon?—November, December, January, and Feb-

23158. I gather that the cows in your district culve rather early?—You. I think the last three months of the year, and the first firee are the last months with 20190. You say, is addition, that the price of a calving now is greater at this means of the year and the risk is so much less. What do you mean by the visk? -The risk of calving in the winter

20140. Professor Marray.—If you got the mile in the winter you could handle it, I presume?—Yes; we would beve no difficulty about that,

Mr. J. GALBRARYS commined.

39161. The Chamman.—How for do you reside from Deny city, Mr. Gubacob?—Four English miles. 39162. Are you intrested in driry incuring?—Tea. 20162. To what purpose is your milk devoted?—B is 29187. And you can always get a now calving at any period?—Of course, in sense searces of the year they w high in prior 20158. Are the

are high for golds:

22:166. Are they denser, as a rule, in winder than in
numerot—Very little laterdy.

22:166. Are they denser, by a good average dairy ow
here, been self to obtain

22:160. Do you find it more perfishable to buy a good

22:160. Do you find it more perfishable to buy a good

22:160. Do you find it more perfishable to buy a good

22:160. The more is the more in profitable

23:160. Support in the more perfishable and make.

23:161. You mere keep the course for a second mind. such. To wost purpose is your milk devoted?—It is id in the oily.

20144. Is there may treamery in your locality?—No.
20145. Do you find a steady market for your milk in tery?—Yes. 20148. Have you regular costomers, or is some of your milk some speculatively to whomsower requires in?

We have private customars, and we supply one of the institutions as well.

29147. Is your milk delivered to any of the industrial 2015. Iou never seep use cores as a second language pariod?—I am keeping trulye cut of exty.
20152. Do you have any difficulty in having them attended to?—There is seen difficulty; but I have very ocures of the town?-It is scattered all over it 20148. Would you be able to form may opinion as to what quantity of milk is telem in by a household with little difficulty to far.

four or five children and an income of £1 a week?...I was speaking to one man, who was a barber, and he tall me his mift account was in a week. That would represent avec gallons roughly. He believes in mile. 30:40. He is a wise man as well as a heart?—I be. liers be in

22150. I lappe that his type is summerous and plentiful in Darry?—Durry is well supplied with milk, and the people consume a big let of it. 29151. You think the value of milk se a food is appetriased?—It is indeed.

2010. Do you think is there a larger quantity con-ramed new than in your audier recollection?—I think there is a bigger occurreption of milk than when I started, twenty-there years ago. 20103. What class of nown do you keep?—I just buy in the town market. My stock is rather hig for the smooth of land I have.

20154. You must keep up your supply, and you must up softiment cove in order to have that supply?—Yen. Man sofficient cove in order to man war.
20156. What market do you buy them 29186. In there a weekly or a mounthly market in the city?-Weekly.

Sitis difficulty so far.

21916. We have board in other finitions that there 22916. We have board in other finite work—I do not seen to be seen to be seen to be seen to difficulty; but if only the seen that the see infects to difficulty; but if only instances that these infects in lost exists.

I do not instance that the seen that the seen that the seen to be s

2905. What custom do you tollow in the winter essent—do you keep up your supply?—Yes. 2900. Would you have much difficulty in keeping up your bulk in the winter suscor?—I find it is as easy to keep it up in the winter as in the summer.
20167. What artificial foods do you resert to in the winter sesson?-If our own onte are chosp we concurre a bigelot of them.

20158 You consider them a good food for mileb core?-Yee; and turnips and Indian meal, or cotton-

19171, Lody Evenana,--Have you ever tried coullage?-No.

Mr. J. GALBERTH .- 13th Juguet, 1912.

29/72. The LUCHENCY—Do you risks careagh bay for the winder feeding of your court F-Trincipally states. 29/17. Gap you rause except yourself—Yes 20/17. Too don't give them bay, as a rule?—No, are one is happened to be very state.
20/17. You think you can get an good results from lay as from connectived tools?—Ver.

yr as from consulested Roos?—Yes. 29176. Do you chaff the steaw?—No. 39177. Lady Evmann.—Have you tried penatips?— Not managolis are very good. 20178. The CHARMESS.—Parentge are better. Mangolis.

give a large balk, but poor quality?-I am inclined to hink that.
2019. If you were to feel the cows on mangolds and hay alone you would probably find a difficulty in less-ing up the standard of baster fat?—Yes; we give them

20180, Lady Evenano.-Do you feed your cows on cappages? cathinges?—I.on. 29181. Do you find that very good?—We begin to find when the grass legits to full. 2009. The Changuas.—Do you find that cabbage in

sa cood for milk production as they feed was gan eight !-Yes, and the come are very fond of it.
29083. Do you ever go in for the growing of each ercos in order to have spring feeding?-No; I never

2008s. Has it ever been teled in your locality?-I 29186. It has been taied with great success elsewhere,

2016: 16 has been ided with great measure clauribers, and I are so remem why is should not be regularly residue to earry 16 orb hard—We produce a last of irrality, and we are able to feed on to the middle of May, 2016; Box this is an abelier feed for the production of mile. No this is a better feed for the production of mile. No this is a better feed for the production of mile. No earn a better feed for the production of mile. We want to the pricial of mile from a way, 2016? With regard to the yield of milk from a way, 23.00. Whe regard to the yield of milk from cown, is it is a good now as you have howen it to be!—I see very hitle change. In fact, in my opinion you may have a cow milking well this year and not next year. 25000. The fact but a cow it a heavy well wisher.

2000. The fact that a cow is a heavy milk yielder for one heatele a period would not mean that she would be a beavy milk yielder for the next hertaften period?— No. I would be afraid that a big miller would I would be arrest that a big fractir would be a poor quality of milk.
 19089. Taking the contrary proposition. I was asking

S000. Taking the contrary proposition. I was acking one can experged in the trails a few days are whether an azimal that gave a limited supply of milk would steemerly give one risk in battler fast, and be sent as than it did not follow that the core giving a small spiral would show like the core than would give a small would facey that the core than would give a small massities would give a bay level give a small consister would give a way. cuantity troubl give you risher milk them the core giring occors uses.

29293. I was saking com-beepess what was their ex-perience in this master, and they said that it did not necessarily follow that become a cow was a light million

the gave a rich yield of butter fat. it difficult to keep up yeer standay Yes; it would be low it the spring. of butter fat. Do you ever find your standard of butter fat?... The territe are Yes; is would be low in the spring. The turnips are spent a his, and the cown are getting a bit run down. 20191. Some cown if their mile was analysed might

ANY AND COME COME IT THE MAN WAS STREET, WHEN A 20032. Do you find a marked difference between the occurring and evening milk?—Yes; there is a decided

intering 600 cruning state of the buy for a practice? Grant State of the best milk to buy for a practice? The creening milk is much reduct. We sent million as a delete in the noneming and finith about 41.5. We as a delete in the noneming and finith also 40.15. We then the creening as 2.00 and then as 300, and there is a delete of the creening as 2.00 and then as the creening as 2.00 and then as the creening as 2.00 and the sent as 2.00 and the creening as 2.00 and

habon. 20103. Have you ever been troubled about a surptus of milk being returned—In Just and July, when the people are at the sea-side, you will have to try and regulate your supply accordingly. 29197. Would the poor people buy any more milk

when it would be more plantiful? I don't think so, 20108. Professor Marram.—Would it be dringer then 1.—We get 21d. a quart in summer and 33. in whole; and, in foot, for pass we arguing to 22d. a quart all the pear round, but hast your it was intrased owing to the drought and the history of knaping up.

a supply. \$0.26. The CHARLES, In there any meterial change in the price of cours?...Within the last month they have been all or 50s. a head less on account of the restrictions

2020). That is only a temporary check?—Yes.
2020). Taking on average of from five to seven
yours, are the cows degree or chapter?—Two years ago
the cows were conver than I remember three fee twenty

2002. They run up and down at certain periods owing to heal circumstances?—Xes. 2020. Do you sell any ceasus?—No; I sall all whole -17 29904. You do no home butter-reaking?-No: unless we had a little surplus.

e bad a little surpres. 29235. And that would be only for family purposes? 29200. Are you to the Londanderry Burni District?-

2907. And subject to the inspection of the offices of the Lendenderry Council?—Yes.
2003. You are familiar with the provisions of the 29208. You are funding with the provision: Daries and Covalude Order?—Yes. 29203. Do you think they impose any unne sower restrictions on those sugaged in the milk tende?

29210. They are coly calculated to lead up to a standied of efficiency that any intelligent sets engaged in that tends would like to see for his own conduct and safety? -- In the case of a person building a new byre the amount of masse for each now would know you a cold space in the winter time.

cold space in the winter time.

2021. You think the requirements in the marker of
six space are liberal?—Ten; 300 feet. In the winter
time is would be very hard to keep up a nateral heat.

2021. Buy you kee your cown free at all in the winter?

—No; I keep them housed throughout.

2021. M. O'REINIS—TOR don's liet them run out

1953B. Mr. O'RERES.—You don't let them run out in the day?—No. 28316. Not even to water them?—No. 28315. Or while you are cheming out the byres? We can chan them out without districting the oows at

20216. Your byses are cleaned out every day?-Yes; 20217. The CHARRAN,—Do you suffer any loss from toberectors affection amongst your stock?—Very 1880. Occasionally we would have an old case. 29218. A piner?—Yes.

29219. A piner?—Yes.
29219. What becomes of her?—Wa get rid of her.
29229. Send them to the abstrict?—I call in the sean
when I call the "relieving officer," and I sell the to hire. 2022]. Are you generous enough to export them to Ginggory—No. 20222. Would the man you sell them to have any trade in that way; because we have bound that it is not at all uncommon to find them expected out of the

country?-- I have delivered them to butchers that were country -- a nave delivered usem to uncount may were shipping at the time. 2823. You considered it no part of your duty to leaster what became of them?—No; I wanted to get

logate what became of somm.—way,

\$2000. You don't keep your cows for a second mile.

\$2000. You don't keep your cows for a second mile.

\$2000. You don't keep your cows for a second mile.

\$2000. And then do you select the best millions?—If

\$2000. And then do you select the best millions?—If

\$2000. Professor Merray.—Do you keep her.

\$2000. Professor Merray.—Do you keep not milk. No; occasionally I would measure a cow's milk. 20037. The Cramway.—What do you think would be

attern. The CREMENT, -What do you think would be the average yaid of milk from your own for a full hetation period?---If I had fifty own milking I would comiden that if I had two gallons of milk from each ow I would be settinged. 20030. That does not quite convey the idea that one

wants to know, but noticy your system it is hard to give an opinion. What I wanted to know was—what would be the average milit yield in gallons of the whole bend?—I can hardly tell you that.

29029. Would it reach 500 gallons per cow?-No. I occasior from 800 to 400 gallons would be the yield. 10250. Of course, one knows where the land is near and the treatment is worse still, that the average will run down considerably?—There is no doubt.

29261. We were told only yesterday of a district where the average would be 110 gallons?—That one would not be work keeping. 2002. The com were poor, they were award by poor people, and they were peoply fed, and averything was poor, and the milk yield was worse then all?—Yes. 2023. We had a confirmation of that by another witness to-day, who said that he thought 270 or 100

Mr. J. Gazgnatre.-Idth August, 1919.

pallets would represent the average of a poor distriction the western court of Daneyal?—The land would be

poor then poor then.

22254. Yes, and the news would be poor?—A good
goal would be better than them.

22255. Have you experience of any other breed than
the costs-bed absorbten for dairying?—The grazers

and that is very good.

and that is very good.

There were the Aprilier with the horthorn,
where the proposed of the proposed that is very good.

are a few of them. s a few or upom. 2023?. In there an Aymbire buil?—No: the Aymbire cow and a shorthern bull. 20239. And accordings Aveshire some are invested in?

29239. What sort of calf would the cross produce !good one. 20240. From the mest point of view?—No; but from the smilt.

29441. Will it particle largely of the character of the Agrelius, with the sharp back?n—No. I have a little cow, and she is very good. See is forge short sisteen or eligibles quests a day. She will do that only for our months, and then drop to shoot eight quests. Some of the common o

miliers drop off. millers frop ou.

29345. The own that would give a steady flow for a
long period is the better dutry nervent?—Yes; I would
prefer a new that would give me twelve quarte steadily

than one that would give me eighteen quarts for a our-29244. Is there much loss suffered from abortion in e dairy bords of this county?—There was a good deal

29245. You, of course, are not troubled in that way? —I had some little experience of m. 28009. And found it difficult to eradicate?—Yes; it bed some little experience of it.

in troublesome. 19247. But a more intelligent conception as to the cause criets, and people are able to make a better effort to deal with \$17-Yes. 20248. Lady Evrnath.—Are there many goals kept in your neighbourhood?—There are few, execut by the

in your neighborshood?—There are few, assay by the faboreting also of people.

Michael and the people of the peopl

experience. 2923). And you have not much taberralmia amongst ie cozet—Very Bitle. 29233. Do you think that all the by-products of milk should be brought under the same rules and regulations so new milk?—I shink they should be under supervision, the same as new milk. In a great many of the creameries the skim milk is taken bank by the farmers.

25233. That is the separated milk?—Yes. 20254. Have you had any experience of the separated milk that is brought back from the cerementar. Not personally; but I know some farmers using it, and I starcy is has not been improving their young stock.

29255. We have had evidence that accretimes it won't keep at all?—It is for immediate consumption,

Mr. Janua Louis examined.

29256. The CRAMMAN.—You are living in the Cele-vaine district?—Xes; about three miles from Coloraine. 29207. How long is your creamery at Ballyrathans with regard to the quality of the land, or the accom-modation they have for their cattle?-No; I don't con-

established? February years 20256. Have you been connected with its management for that period.—For sloven years.

3233. Has it developed during year knowledge of it?

Yes. The trustover is now fully devide what it was
when I went there. Last year our terrorier was

\$25,000. Our mile supply last month was 255,000.

gallens, for which we returned over \$4,000 to our sup-22100. Have you suxdingles?—Yee; we have seven summarden. Our area is mainly attasted in North Astrim. Our suxdingles see, some of them, eight and twelve miles distant from the control occanorry. The area we work on would cover a radius of about twelve.

or thirteen miles to the east and south of Ballyrishams or surroom miles to the east and south of Bellyrishams. 19581. Do you manufacture butter at your sucliaries or only separate the milk?—We only apparete the milk at the sutiliaries. All the butter is manufactured at Ballyrashane. 29202. What is your principal market?--We are book equally divided between England and Scotland.

We have a large tramber of conteners in both countries. A very large quantity of our butter goes to Gingow and district, and also perfet, to Abridem and Inverses, 27265. About your winter supply—how often do you suparate in the winter?—Those days in the wask. 20554. Is the quantity you are dealing with in the winter increasing or diminishing?—I cannot say that there is much of an increase. We have more milk in the winter than we used to have.

29255. But you have a still greater proportion in the summer?—Yes. For instance, the winter supply—say, from the beginning of November until perhaps the colfrom the beginning of November unse peasure of March-world barely squal one month's supply in a summer. 29166. What I would be auxious to know is whether

relatively, that was greater than it was five years ago?

—I am not prepared to say it is. —A am has prepared to say it is. 29207. And does the belief prevail in your di that winter dairying is not profitable?—That has the opinion so far. There are a few exceptions. your district the opinion so far. There are a few exceptions. There are a few of our suppliers who keep up a good supply in winter; but they don't number more than balf a

29269. Would they be exceptionally discussioned in any way as regards proximity to the opening or selling milk, and can make botter at home.

25200. It is just the apirit that moves the owner?— Yes; and the men I refer to are men of progressive feless, and they hop a good class of over, and that is a very important point in regard to winter distring. 28270. Weeld there he men who pold as unama-

amenut of attention to proceeing cows of good softs, yielding qualities?—Xen; but as far as I know they mannly brood their own cows—at least, several of them Of course, they may hav a cow now and then, 20071. Bu But they make a rule of breeding their own

20272. And the consequence is that they are able to continue the supply of milk throughout the winter 20273. At least they do, whether it is a consequence

\$5074. Do they grow winter or spring food for their stock?—There is nothing specially done in that way MODIAT—Inter a potential when you as mangolds, and yearles. You see a small patch of vectors been and three, but not much. The principal winter food of the, cowe is turnips and when, and some use cake and other concentrated dood. Scene of them will use a and other concentrated dood. Scene of them will use a deal of crushed cats of their own growing and good been of some chaffed straw, 3975. Do skey give tham any heated food in the winder than 7-Scone do, but it is not a general thing, 20226. What breed of outils do they keep?—Mainly

shorthern. 29277. Are there any Ayrebless kept in that region?have never tern may of them. 29278. Or an Ayrshire hall or an Ayrshire cross cow?

20279. Do you find that the milk is sent to your have any facili to find with it. 22250. In there an improvement in that way-ers the

suppliers more exceful to headling it?-Yes. 19251. Do you find that the application of the Order has been in any way helpful to you in accurring a cleanly milk supply?—I consider it has helped. At the same time I consider it has one drawback 20282. What is that?—If a mife supplier is asked to make improvements and reverse to do so, he can cease

66

19983. Your view is that he should be under the came conditions manufacturing butter at bonce as if he sent his stalk to the country or sold it to the city?---2034. That seems perfectly reconnibled...You

20205. In there much loss smonget the darry has from techerculous affection, have you hand?—No; have not heard of many other. An occasional one has under my notice, but not many. 29286. Do you sell milk retail at your treasury?-

No. 29287. Have you over been saked to?-Well, sometimes from Belfust.
20286. Wast I wanted to know was, if the industrial population surrounding the common needed a milli surely for their domestic use round you sell it to them?

Tet; we sell use min regularly for sent purpose, 20299. In whatever quantity they need in 2—Yea 20290. As low as a pint 2—Yea. 20291. And in that lengtly availed of by the working

population?-Yes population?—Yes.

\$5552. Would they come a mile or a mile-and-a-half for is?—They would; and in the sunter time they come. toth further. Wragos.—Do you slow the milk to be . 32908. Mr. Wragos.—Do you slow the milk to be . 32904. The difficulty being supervision?—You; and there would be compliants so the part of suppliers

petting basic the supersted milk they expect potting basic the supersted milk they expect pond. The Coupenan.—Have was less d less difficulty in regard to your control encourage?—We have better reportition there.

19926, What quantity would be dealt with in that
19926, What quantity would be dealt with in that
19936 who were greatly one off few or level by the contile.
2997, Do you sell any apparated gail???—A Bills, but
19996, The you sell any apparated gail??—A Bills, but
19996, I wasted to loow what was the demand?—II
19996, I wasted to loow what was the demand?—II
1997 to be pictomith in demand is. We have two flores.

r the pussernme was accessed red gallace in the summer. 200. What weight of butter would you have dis-22200.

22000. What weight of huister would you have dispend of in the past month?—35 team for the smooth. We also sell a large quantity of fresh oreass. 22000. For export inside Parker. Team.—22000. In these trade developing?—Yes.—22000. In the case of the developing?—Yes.—22000. In our gift slid of a larger quantity more than 10000. The case gift—1000. In the past gift—1000. The past gift—10000. The past gift—10000. The past gift—10000. The past gift—10000. The past g butter manufacture? You care all the exthan the penses of measuracture. The orents does not require

much labour. 20034. Is the carriage higher for ocean than it would be on butter?-Weight for weight, it is the came. Sects. If the butter was manufactured from the even, the weight would be less? Yet; about half the weight.

28906. Is there may increase or diminution in the of milk from the same number of core in the 3000 or must seem use seem make supply reached its actic norm - ever your ago our mass supply systems and highest point. After that there was a gradual decease, until heat year, and that was mainly attributed to the until man year, man then was making attributions to one milling capacity of the cows deteriorating. It was said to be due to breeding too much on beef lines

to be due to briending too much on best lines.

\$4007. To the premium bellet—Yes, and other
bearens were musticed for it. One thrug their cillistates,
against horizon as to too one in the tempting price the
farmens are offered for it most readily the feet surging
on the surpoless as try and price the production of milking stock, and go in for the spinonish horizon of milkments are the surging of milks are the surging of milks. records, and benefits only from the best class of cours.

20306. Are they condumning with that advice?-Yes, to a limited extent. There has been an improvement to a limited extent. Torse has been an improvement octainly within the last year or two, and we hope more will follow when they see the beseful resulting from it. 20000. In the keeping of calls records extending?-

20210. Have any con-testing associations been formed?—No; not in our locality. Whatever has been done in conrection with THE CESAMORY.

28311. Do you think that the keeping of milk records would be helpful in working up this supply, and the standard to be reached and should be by the conceptual to the contract of the contrac point out to the dairy suppliers the unwindom of keeping corn whose male record is below a certain

20012. And thereby increase the yield from the an awout. And thereby increase the youn from on whater number, and consequently the supply swifishle in the country generally?—You. 28213. Do you posteroise your cream?—We parteurise all the milk before it is scorntos. 2051. To what temperature do you relse the milk to?—To 270 degrees or over.

20515. By what method-is it by sicam heating?-20316. Does that ensure that the whole body of the

milk is exposed to this temperature?—Yes: 29317. Is it being spituted while it is in the heater? 2618. Mr. Wraces.—The effect of pasteurising coffic lu than way is, of occurs, to lift off all the lactic soft stype of bariffs. Do you raid as a consequence that it deterizes do very quintly afterwards?—The expected mills?

29519, Yes?—Unless it is thoroughly sooked down

2003. Yet - work to it is nonveyey.

#firrunds it work keep long.
2003. Do you in cedinary practice cool is down?—
Yes, except we are short of water.
2003. Where the apparated milk would have the oreamory is a warm condition it is come to very speeds determinent from the streamer them; two the fact more don't mind whether it gots area or not, as far-mers don't mind whether it gots area or not, as far-is for outlending from The colores will there as well for more as from superstell mills. The basis to confine the calves to one or the other—is done not do to give them fresh mills today and sour to-morow. You great them fresh mills today and sour to-morow. You great

them fresh milk to-day and some to-morrow. You must keep to one or the other, 28582. I suppose they have learned by now that superated milk in noe sufficient by itself—Not without controlling is with great or nomediate stories. 98393. Supposing in certain confey shirting there was a distinct electric in the suffix supply for the was a difficulty coverage in the milk supply on the labourers where the creamery system is established, and it seemed to those interested in the milk quantum

that the only way in which the apply of milk for the labouress could be secured would be for the consequenmanyment Gives no secured would be not use occurring to east as retail depth for the sale of mile, would you see an insuperable difficulty in making the acciliary a depth?—No. I don't think as.
2010-1. It has here suggested to us that it is imposeible to turn a greamery into a depth for that purpose?

Of course, we found in trying it that it had its draw.

backs. If the milk syphics got a sheet measure of separated milk they stated that we were selling more separation miss step season max we were sensing save than we were accounting for. 29025. Lady Svinana.—Supposing you received twenty gallons of milk, how much separated milk are you supposed to retern to the supplier?-About 80 per

cornt.

202028 Mr. Wijssen.—If you had a reball brade of 202028 Mr. Wijssen.—If you had a reball sheety demand through the sense of the

necomm a segót that will solve the problem. We want to find out the great diffusily that previous a creamery doing that?—I don't see any insupervish siftenily pro-vided the creamery committee occaient; facy can get as good a price for the milk as by rasting it into butter.

butter. 202028. Reiber better?—Yes, 202029. How many gallons of milk would it take to make a pound of butter?—Our average run to a little many than the quarte.

2009. Perfessor Mirraw.—What do you do with the drainage of the creamary?—It is purified by a system

drializage or has accommany man in purmed by a systems of scopic tasks and insolved hold. 20031. Where does your efficient from the septile tanks go?—The efficient from the septile tasks gose to stream adjacent to the creamery e stream sejectes to use creatury. 19833. Have you any complaints in repard to it?— o, not now; but before we introduced this system there were.

200300. What do you do with aludge?-We only require to clean that con once a year. 29534. The matter in the separating bowl?—That is thrown into the salt heap.

29305. Does it decompose rapidly?—It does not lie there long 20:308. Mr. O'Burre.—Do you know what it comissis of—third particular shrap enbetance?—The impurities in the mile, to a great extent.

Mr. JANES Loop.-18th August, 2222. this man is one of our principal winter sugaliers. He

20007. Processor Marran.—What are the impurities in the milk you retir to?—They would be more or less fine matter in suspension. 200308. What is the nature of this fine metter in suc-

9939. Manure?... Proubly. there see hairs. 20041. Strengings and so on from the utder-scales? Let. There are generally one or more does waiting

-Yes. to get a feed as soon on the contents of the seperating box! are thrown out 20142. And it does them no harm?—No. 20142. Mr. O'Braws.—Thry come back again?...Yes. 29344. Yours is a co-operative oreamony?—You. 29345. Here you been manager there long?—Eleven

years.

2346. Were you living in the neighbourhood before
that?—No. I was manager of a creamway in county
Slape previously for several years.

29447. You are living in your present district
sefficiently long to have a good site of the millions
caspection of the core or the locality?—Zen.

25048. You say there is not much improvement in their milk qualities?—No, only in exceptional instances. 29049. You have not undertaken, with the estimates of the Department, to become a countesting associa-tion?—No; we have done nothing in that way yet. 29550. You don't know of emrhody there in the distrios who keeps records so to what would be the visit ince with accept records on to what would be the yield from one berd, say, and the aroung per cow?—I know there are seene farmen who have buyk records for arwest years. The individual cows will give from 600 to 600 pulson. I have one farmer in my mind who keeps sight cover, and the yield is from 600 to 800 railone. He weight the milk and keeps a record, and

keeps up a good supply of milk in winter. He made notice about 45 per cow per account more than for the mide hours no per war pas assessed in a specific colving cover.

20001. What is the average prize at your creamony for the year?—416. per gellon and the separated milk

turned. 29352. That is rather high?—We have not gone below 20102. That is rather high?—We have not gone below *dd. the surrouse yet.

20103. If the core of this farmer, when you have surroused gover him not less than 600 galeon, he that, it pays to have them calving in the virtue?—Tex-2765. Mr. WILGON—II is former of that has got a bard of 900-gallan core he would retain a certain

gos a tirm of source, for his own use and for the neigh-bours?—Yes. These figures I have given are the soluti-

produce of the core.

2000. Would is in possible to acceptain what
quantity of milk comes to the opennery from that perquantity of milk cores to the opennery from that perquantity of mine commer to the observery arom seen per-ticular pince?—Xex, of course it would. We have the co-cord of the total quantity that we pold him for during the season. This farmer last year averaged 2.00 a cor from the creamery for the milk he such. Of course, he has a large family, and also a manter of order to passe, which is large family, and also a manher of order to passe, which he has to supply. I know mather applies who has four good cows, and he averaged over 428 for the season. His cows are recognitionally good.

23005. It would be attracting if by any chance you could send us the quantity of order he amit to the seasons and the would be delicated by the order has the former of the could be delicated by the sum to the seasons and the would be delicated by all the state of the seasons and the would be the sufficient to the seasons and the would be the sufficient to the seasons are sufficient to the seasons and the would be the sufficient to the seasons are sufficient to the seasons are sufficient to the seasons and the would be seasons as the seasons are sufficient to the seasons are suffici

could sould us the quantity of mile he sent to the greenery and the record of his selft wisk? I will are to do so.

2007. Do you get milk from the labourers' cobleges
at all—do they keep a cow, and send the milk to the
treasury 1...No.

23858. Nous of them?-No.

Aldressen Mershall Texast, D.L. examined.

20000. The Character.—You are no employer of lebour, Mr. Willie, in the sity of Denyy — Yes. I emparture in the firm of Tillic and Readenon.
2000. In it make or incode conjugets you have as a rule?—Putnips[sh] Sensite.

a rule?—Principally females.
20051. Specimag generally, is the health of your congleyes good?—Yes, very good.
20052. Do they take a mili-day meal at the confidence of the con

Solvey -- not say as go but go borne generally.

2008. Do they live within easy reach of the factory 5-Na; of course there are emptions.

2008. Is any province made to enable them to cook whatever food thay consumes—Not with us. There are a great many places where they get food 20015. Which oster for the working-class popula-

2016. Do they look healthy and strong and rigorous—the young girls from fronteen to eighteen? —Yes. 2007. And they are not often inespeciated through

Minus 1—No. 2008. Have you any meried women engaged?— We have a good many. We don't employ meried women, but if they get meried in our employment we

winner, but if they get merried in our emproprises re-placed to the property of the control of the control of the merried to the control of the control of the control of the sufficient incontinuous. Ten, but I think they take to much then. If they took more milk it would be to much then. If they took more milk it would be day. I seed if put of the control of the control day. I seed if put of the control of the milk because they have to go to their compleyment of the versate in control of the control of the control of the total of the control of the control of the control of the total of the control of the control of the control of the their tensor of the control of the control of the control of the total of the control of the cont

2830. Miss McNetts.—And if they are not thece when the saris are passing they may go without when the saris are passing they may go without milk?—Xee. I think the milk is deteriorated by leting abaten about in carte through toyen. The milk is four or five hours in the casts and it is half-churred. 20071. The CRAMMAN.-What bour do they go into your factory in the morning?-8 o'clock, 20172. They have their breaklast before then?-Yes. 29878. Do you think it would be an economic purpose to which public funds might be devoted if

milk shops were established, and, if need be, a slight reduction was made in the perce of smit for the working-classes?—I do. If milk shops with retriger-ators, where the milk would be lept coul in summer, were established is would be a good thoug-It would be very easy to have a little refrigerating room in

58 Vety 689 to mere a mean reinigermany come as each thog. 985%. In the ordinary small depot in a town, you usually find that the milk is stored with objectionable commodities likely to come a taint?—I have no co-

printense. 22373. You are clearly of opinion that it would be an economic administration of public hands to core 22373. You have been supported by the control of the ply, in order to economic bary and hashing milk well to a swellable for this power throws. You I think to would be a greek thing to recovering the weeking-cleases to prot more milk ands their tea. You cannot go about to give up the six.

29276. If a larger supply of milk were available more of it would be used you thinh?—Tes, and I also think that a cerporation useh as ours should not change tolls to milk woulder. Our occupration change GL a week on rarry sast coming into the town.

10x occurs to fail a state of the sast occurs in the town.

10xy occurs twice a day thay pay is, a week. I this

11 is a reliation to thing to be a weekers that way. Is

10x of allogather the payresot, of the tail, but the

10x occurs of it that is a objectionable.

25077. We never heard of that curious prevailing anywhere sleet—I am of opinion that if about not be charged. Milk tolls, so far as the working-theses gp, are objectionable. It keeps the trade in the heards 20078. This is the first occasion on which we have been told that tolls were charged?—They are charged

2007). Miss McNenz.—Is it a very old custom?— Tes; it is a very all custom. I am a member of the corporation myself, and I don't know what sevence this stell brings in, but it is versions and should be

sbolished. 26000. The CRUMMAN.—For a centre of population like this it second to me to be natedity/an3—They are a great mistake; they are carmid on to keep people in positions; if the followers abclished, they would kee talest situations. Some more get 350 a week for one

Aldrices Trans, D.L.-18th August, 1915.

That is how it works out. I think it should be abolished by Act of Parliament. people have their purchases from of tell-free trade in fact, that is what it means. 29081, Mr. O'BRIEN .- You don't feed may of these girls that are working in your establishment in the ruddle of the day?—No. muchic of the says—no.
20022. They prefer to go out!—We had a dising-room at one time and it did not work. 20300. They did not ours about 117-No. is nothing that would bring them to drink milk more

quality than having facilities to get it. 20084. You say you keep or such girls as got married in your employment?—You. 99385. What do they do about their balifes?-They are away for a time, and the mother or some friend taken charge of the boby and the worker again gon

back to her employment. A great many manry ness who see not in employment at all. them 20086. The husband minds the baby?-You, or the considerables

20227. What do these mon who depend on the woman's work do?—Nothing. They knock about, 20258. You don't find that the women who are married in your employment neglect their infant child

et all-that is to say, that they worm it as soon as possible?—No.
2030. Do they come heat to work within three
maths?—Yes, some of them do, and some hest. ome come back in one month. 2000. This, of course, you camed very well dis-courage!—We don't take any notice of it. We don't with to ture them off as long as they give good attandame. We see having a very strong company attendance. We are having a very strong company starting a ship-building industry that will give employ-ment to the men in Durry. 20091. Mr. Wilson—I suppose that will be a great disappointment to the mea whose wives are supporting then?—They will have an opportunity of working

2000. The CRAMMON.—Is this scheme of starting a ship-inditing industry likely to see frontien seen!— Yes; it is going to be started immodiately. 2000. You here plenty of deck secommodation available in Darry!—No. boez 5. 23334. Ledy Evenant.—Has there

factory elected in Durry lately?—No. We have plenty of employment in the city for women. Collars. should be very glad if the Commissioner woodly pay sould be very glad at the Communication would visit to our works in the morning. The Charlesn.—We shall endeavour to do eq.

The Commission than adjourned till the following day to Owners.

The second secon FIFTIETH DAY.-WEDNESDAY, 14TH AUGUST, 1912.

The Commissioners met at the Courthouse, Omegh, at 12.30 c'alouk.

Present:--P. J. O'NEILL, Esq. (Chairman); Lady Everand; Miss Margarey McNeill; Airc. WILSON, Esq.; DERMOD O'BRIEN, Esq.; and Professor A. R. METTAM, R.Sc., F.R.C.V.B. S. W. Strange, Esq., Secretary.

Mr. B. S. Conserve, J.F., exemined. 28396. The CRARGARY.—You are a member of the Burel District Council in Omagh?—You. 20396. How keep have you been connected with the desiretestion of that hedy!--- Seen March, 1875--thirty-nine years. hirty-nine years.
20007. Has the Omagh Renal Cornell put into focus
the provisions of the Dairies and Correlada Order? recently. 108. When?-Within the last couple of years. I 26006. Whatel-my of the date.
26000. Will you be good enough to tell us what
26000. Will you be good enough to tell us what
steps haves been taken to enforce the Order; have they
deep haves been taken to enforce the Order; have they
deep have been taken to enforce the Order. Have they 2010R. processed indigenous. The large have opposited we lay inspectors and a veterinary surgers.
20400. And reports are received from them from me to time regarding the condition is which find the byres and darry stock in the Sistrict? They man the open and thany stone in our memory—any have east an a for reports, but not requisity. 24401. To where is the responsibility for the irregularity to be attached; is it to the officers or to the council?—Probably to both.

the council?—Promoty to come.

20-022. Are the council not taking a lean interest in the administration of the Order 5—I think they are. but sailt it is not done, and a very small portion of the cowsheds or byree are reported on. 2003 Is registration endured—see all persons reading milk or sending is to a creenery registered with the clark to the rural council?—A good many are, trooks say a great many see not.

has I would say a green many ten men. 29404. If would name then that no very vigorous steps have been taken by the council or its efform to saigne the provisions of the Onder-B. B me not been cultured the provisions of the Onder-B. B me not been cultured, and I don't know on whom to put the blems. otherwise, and I don't know on whom to put the blame. There was some collectance about scooping it at all, and they accepted it on the condition that they would have it as easy as possible. 29405. On whose part was the reluctance?—I think the cornel first agreed to do their best, and we look tise Local Government Beard inspector down ones twice, and the council appeared to change their mind when there was pressure brought to beer on them from range. 20405. The members of the council changed their inde?—Well, I think to a very large extent they did.

missis with a consequence of a very large extent user one.
That is not own opinion.
20407. We can grateful for an expension of your own opinion. Have the officers appointed by the covir operators. Assert the distress oppositions occupied that the conditions provided commit ever reporter cans no deharmon providing an certain deliries or lyrus were not in conformity with the regulations had down?—There were a few reports made to that office.

20466, And what setter was taken on these reports? I think notices were served, and I think that is the hole of it. whole of it.
2000. Notices were served on the owners of these

deletes or bysee that they were not conforming with the cognitations laid down for their guidance or control - You any prosecutions colored?-Not that 20411. Did may subsequent report come before the media and my stanogume report come settier are countil stainty either that the persons on when rotions had been served rotated to comply or had made arrangements to carry out the improvemental-ary of the county of two or three reports. My opinion is that the master was not followed up.

20412. Professor METTAM .- Do these inspectors get ony salery?-They get a could colory. 29413. The CHAIRMAN.—" an rather sary that some of the officers are not coming before us?—The destor will come. He is one of our officers; he is the dispensary doctor. 20414. He would not be familiar with the adminis-tration of the Orders...I am trying to give you as

Mr. B. S. Cumcorry, J.P.-14th Assess, 1913.

20446. Are you personally co-operating 5-No. 20446. Are there any Absolven Aprus built used 5-There are a good number in this county

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20415. I am reiber inclined to gather from what you tell me that no vigorous action has been taken, at all events by the countil?—No; not very vigorous. If a new house was to be built it would have to be built on certain plans, but if there was an old here they had to do with it with some improvements, generally speaking, there were improvements : in all the layers throughout the union. 23416. It would seem to be much more conclusi-

galant. It would seem to be mind more consumers and astichetory if the commit would ensure that healthy and namicely conditions were present?—Yes 29447. Are there my creaments in this district. These are a goal number. Thus is a large district. Spills. Be you recomber the period pervious to the introduction of greatments.—Very well.

What is Has the introduction of the accomment parties.

20419. Has the introduction of the ercomery system hom, in any way responsible for decreasing the anguly of milk available for demostic purposes?-I don't of milk available for demositic purposes?—I don't think there is eay sametly for demositic purposes in this part of Tyrons at all. 29420. No sourcity crisis at all?—Not that I am

29431. Even with the population of the population?—So far as I know they see all supplied. They have become decreased in number in the rural distric 29428. The working-class population has diministrated? -Yes

2003. Is there a searcity of labour to attend the dairying?—I think it is becoming more scate.

25434. In it the custom for farmers in this district to supply labourers with a fixed quantity of milk?-It great many. 20425. It is not universal?—No, and where it is not universal they give higher wages I pressure. 29485. And when the custom does not prevail, would be labourees find any difficulty in prevail, and it is also and any difficulty in prevail, and it is a many get it. I never heard any complaints, except for a short time in the whiter when mill; is supre-

29457. In there any objection on the part of furniers 29427. In there any concerns on the pure of seasons to sell milk in small quantities?—No.
29428. Then is no scattmental or practical objection 29458. There is no equipmental or practical objection to the sale so far as your information enables you to 2-None.

29420. If a mun was resident in a union cottag and was not working regularly with a farmer, from what source would be get a supply !-- He would get it noighbouring farmors about. 29450. There would be no objection to supply him

because he was not resident on a farm?-Not in the least, on the same terms 1963. Are you engaged in the dairy industry your-self - Yes, I form a couple of hundred sores. 19432. Do you self mile to the creamery? - Very

29413. To what purpose is the milk you produce develod—butter-mailing?—force years ago I sent it to the district agains. They have nearly as many sows now as they went. They have between their and larly cows, and they need very little milk new

and lety cores, and not, on-lines coiside. Do you go in for horse-distrying?—Not 20034. Do you go in for horse-distrying?—Not 1005. Too know sheetneed the dury webs to some 2004. Do you find it advantable to go the work of "he dairy looked other. Was that the rounts?—Not "he dairy looked other. Was that the rounts?—Not one other reason. 23457. Regarding

20457. Begarding the milk-producing quality of the dairy stock available in the county, is it better or woese then it was in your early recollection?-I think to has in many wave improved. 20483. Is the milk yield of the cow to-day as good as that of any other period with which you are familie?—I think it is about the same.

20439. What class of now are you using in the siry?—Cross-beed and shorthorns. 20440. What premium bulls are brought in by breds, and there are a great many farmers keeping 29441. Thus would be probably the produce of a shouthern remitus ball and a non-

2944. Thus would be probably the protoco of a cross between a shorthest presume that has a nec-peligent over 1—2m, very often that inspiret, they see proposed the proposed of the proposed of the 2948.42 for the playme artimat with a milk record thay desire or is it a consolved hell—A cross-beed is thought to be the best. 3944.4 for they co-pressing with the Department's 3944.4 for they co-pressing with the Department's second to the production of dirty belief—2may raw, record to the production of dirty belief—2may raw,

29446. Are there any of the stock of these hulls kept for damy purposes?—Yes, some of them are.
22407. What sore of fairs arrange are than 2-The

street, while sort of many servation are unity man-suilt is great, but the quantity is not large. 29448. Are milk records kept, do you know?—Some people keep them. 39469. Do you keep them?—No. 29460. Do may olibers engaged in the industry do

199450. Do any olsars rapaged as see assumer, solven-year, but notes of my does neighbors been established in the locality of the depth of the depth of the present and having them registered in the dairy scheme, from the last it was the conduction of the solventy. The conduction of the dairy scheme?—Now close the me that it know do. 20402. Is there much toberoulous emongst dairy shock in this county?—There is a great deal of \$9433. I would infer from that, that you rather think it is increasing in recent times — You, very much. I remarker a tens when you beard very

hittle talk about it. If I may do so, I will give n opinion as to the excess at the end of my evidence. an optimize as not one of where is two city or my originaria. 20454. It will be glied to have them now?—Abese thirty wasse upon or less you would secondly less of a case of shearcoloids. At their lims between generally were a notion got obread that it would be better to the notice out in writter could have the serves would do be better to the property of the serve would do.

better. In this wet climate the colves were kent out in winter and at that they would be probably from sing to six mouths oil. They would be out beload dibetes or shoulding at gate in mud a tool deep, or lying on the cold, wes, damp ground. This is not a country for keeping cuttle oat in the winter-side a coverancy not forgong estate one in the winter-wise cold, disting, west land. The called acquire that dis-cone when young, like assistant in framean beings, and it develops when they get older. That is my option as to the literate in telecondess, and I am fully convinced it is right. 20655. Does the custom still prevail of keeping the dry stock out in the open in the winter?—Not so

29455. They are remerting to their old costoms and methods?—Tes, to a large critico, and they position theliter if they keep the coves out, so that the critico can go out and im, and it is much better for the cettle and they are doing better. 20457. You are of opinion that there is a siderable increase in the number of cases of t culture within twenty years?—I am sure of it. has increased more than seventy-five per cent. 29403. Would it be also true to state that in spend Would it the period to which you refer, this seems was not as accurately diagnosed as it is at the present day, and that cares of disease existed but were recognised as suffering from tuberculosis?-I dee

believe there were the same number in existence at all 29450. But it is your experience that the losses in stock are greater within the last ten years than they were thirty years ago?—It is probably now more than saventy-five per case, greater than it was then. 29160. And naturally these losses have to a restor and naturely stone issues have to a out-eilerable extent handleapped the delrying industry?— Yes, certainly, and caused great loss to the farmens busides, and some of them are probably not awars of

for the reasons I have given.

29651. Here you mortelity amongst your mires, and do you lose many of them in the first air mouths of their existence?—No; it is more common in the County

19892. Abortion sines not trouble you so much?-No. 20403. It is not a frequent source of loss amongst the dairy stock?--It occurs semolimes.

29454. But it is not nearly such a sectors draw-leok as the presence of teherculous affections?—No; it is not nearly so had. 29455. What is the ultimate fate of a new that would be in a dairy when she contracts tuberculoris; what becomes of her?—I don't know many cases close

29405. Has the veterinary inspector appointed by he Omach council over received to that boly that he had discovered cowe that he hellowed were suffering Mr. R. S. Cammers, s.p.—14th August, 1912. from tuberculous affection?-Not so far as I am

because amended to the last am I think he made one report about a couple is aga. I saw it in the paper. I did not a be at the Board meeting that day. of mosths ago. oppose to be at the Board meeting that day. 20407. Were any discotions given to how with regust that pertiguisy beast so to what should become of 187-lie made a report on visiting some cowshede and haves, and I son't know that he had not one of tuberculous et all.

50468. What was the nature of the report—that the

conditions existing were not in conformity with the regulations laid down?-Some of the reports were favourable and some unfavourable. I think this reaces Wine 18ro (reptiles and was two montes ago.

29460. Requesting the universalle reports, were
any instructions great to him with regard to them?—

More than likely there were. I was not proved at

arrapperies properties in this locality 5—Yes, and succliance.

20411. Have you ever known firsty milk to be 20-11. Have you seer known firsty must to be reburned here a consensor or exacilisary to a factment!— I have heard a few cases where they thought the many nees not properly kept clean, but not many many They are warned. The createrry small them a

private circular to keep everything clean and in good erder.
20472. If relik is refused in one creamery, is 14
possule to get it taken into a neighbouring oreanery?
—No. I never heard of a sear of their sort.
20423. Are those engaged in the datrying industry—

sailkers and others attending on the cove-careful in their halta?—I suppose a good many would require to be more excell but I have navised them to keep everything right—the byen and unders and overything light—the very weathful about that.

thing. I have been very watchful about then, 20074. I wested to know if those capacid in this their habits, and correlate were nestrally clean in baseline gradient court obers their cleans, and harding refer-it is so hard to review a question reparting the short of the Ornagh union. 2970, Jonas were

requiring the whole of the Ornegh water.

2970. I only wars the information as far at you can speak?—I was unakene to give avery possible satisface. I think there are a great many keep everything clean and in good color, but there may s some empythess.
20476. And no effort has been made by the local

suthorsty to far as year information enables you to delice, to being these who are contend the men you so those who are concluded. They try to do so. 29477. Here they ever prosected them for non-deservence of the provisions of the Order?—Not that know of

I know of.

29478. Is winter deleying carried out generally in
the county Tyrone's—decay farmers never send rathe
to the overcories at all, and also a good many here Ave not for from Omagh. 20470. At what price is the nell's sold in Omagh?-

20 cm. At wrose price to the force cost in crossys-the facilities used to be sold on \$d. a gallon in successer and 10d. in winder. I think for come years years it is seld for 10d. a gallon in semmer soul in a winder, 20400. That price would be considerably more than the countries pay?-More than deadle; 10d. a gallen would be shaped double what the creameries

give. 23481. Do any of the creameries themselville retail?—I naver board of the like. I resumenty about Belfact where they sold milk. grand, In there any relik sent from here to Belfast?

29483. Nor to Derry?-No 29495. Now to Derryz-no.
29494. In the form of Ornagh well supplied with rails at all seasons of the year?—It is well supplied.
29496. And there is never a searcity?—Name to far of I know

as I mere.

20400. Do the working-class population appreciate
the value of milk as a fool?—4 don't think they do.

I think the middle and upper classes appendixes H

more.
2948). Has cer improvement taken place in that
respect: on they more locu to guilding a milk supply
for their faculties now than they were twenty years ago?-I thick a great many are. 29188 Some improvement is taking place in that

particular direction?-I think so. 29400. Is there much home-dairying carried on?-There are still a good many carrying it on. It is about the same. When very course come stories reading milk to the commercy every morning, and the distance, and when you take it into account that some ferences got the aster price for the trader on the creamery itself, and think they can self the butter, and that it applies the poeter class of propie in that own locality, there is no profit in smalling it to the country.

2001. Here you ever heard it stated that the rour-ing of salves on separated milk has an injurious effect

ing of daffes on superson any of the state of the control of the c pigs but not for calvia. 29492. Hes the feeding end irraging up of young stock on separated milk had an injurious effect on the

general elock of the country in your opinion in The calves see not nearly so good if you don't add oil-cales and fax seed meal, and Indian meal, to the separated 20493. With the addition of these enhelenance

20003. With the addition of three selectanes is it you opinion, you can pear as the groots and hashin a sixty on opinion, you can pear as the pear of the young the pear of the young the pear of the

creamery system, than the 1946. Do you think that has any effect on the discuss-relating properties of the colvest-I den't think any discuss follows, but the separated sails does

binks any disense follows, but the expansion still does of two on effecting salves unless they have the things I are constituted policy to the constitution of the con-celled and the constitution of the constitution of the color of I trought up in the configuration way. "And they color of I trought up in the color with the color of the color of I trought up in the color of the color of the salves of the color of the color of the color of the term much still et al. If they are over two or disea-term of the color of th months. If you don't example have good calves.
19497. How lang are

19607. How long one you giving pure milk to the calves—for what period—I don't think hardly any calf gots it long enough, but we give it for shout an verbs or thereabouts.

29400. Even those who are conding milk to the creamony?—Yes.

ceasingsy.—Yes.
20400 That is Escon generous treatment than is
given in other hondiline?—That is what is done.
20500 Long Eventure.—I perside used in this
districts—In is, but they give it thinner than the ordinary ettrafout ordinary extrapole, \$5001. The shildren get is I-Unfortunately the process classes don't get ecough, they have get such

proces masses den't get scough, they have got sum a somina of the a. 2000 per somina. 2000 per somina. 2000 per somina somina somina. 2000 per sum somina somina. 2000 per sum somina. 2000 per somina somina. 2000 per somina.

2903. Do you find that they use hame made bread or behav's broad?-When they can got better-milk they bake at home, but if they don't get milk, they assert males it comby. 39006. Have you got a district nurse to your neighbourhood 5-Not where I live.

164_150erracon = --tor where a live.
25507. I don't mean a midwile, but a Jublies or sick nums?—These are a number of nurses shout all towns, and we have one connected with every dispersions.

22003. But that is a midwide, and what I mean is an ordinary sick surse?—I think about the towar and are some of them, but not in the country. They would not be wanted.

They weak not be warred.

2000, Here you got much takes rivers in this
neighbourhood — Very 1886, no far as I know. I
seared home a case about part. I live for miles
secured. They are all healthy much live for miles
course far are either courses; there are more dying
from spockery and thirties of these cours.

20010. The CEARMAN .- These is not suggestive of derestion?-No.

20011. Probusor Mercan -- And they die from old 20022. Mr. O'Barrer.-The majority of the ferms here send milk to the greameries, I suppose? ... I would say the majority.

2015. I see we have some managers of creamenes will be able to give us evidence. I suppose they will be able to give us evidence about the seet of stock there is, sail how much mile is sent to the still be over up pro-stock there as, and how trutch milk is sent to the creamerded.—They can give you a good idea of the quantity sent off the farm, but as negards the stock very few of them see the cours. They can tell the very let of seem see the court. If the case was use number of grillons they received.

2004. When you were supplying utilit to the asylumn and were in the duty bankers, and you know at all what was the seek of average yield a cow would give?

—It waits were more hand, but I know even that give

very large quantum.
2483. You had a necessity of keeping up your supply bearing you had a contract with the saylund?—You.
2008. And you had to supply a certain quantity of 20016. Ar

20017. And were you selling talk obswhere at the about, And were you selfing texts describer as the manner.

The manner of the state of the state

eries betwee the wood was up, 20000. I was bring to get at the quentity of milk that the cose in this district yield. Do you think that the cose in this district yield. Do you think that yield on an average 500 pallons in the year?— I never feled is that way. I can average more what each cow given duly. Some cown go dry nomer than each cow gives duily. Some cown go dry somer than others, and may nell very long this year and it would

eithers, and may nell's very long this year and it would be refer even rest year, see the thirt—Yes.

2022. One fully recognize—I.

2022. One full recognize—II.

2022.

smoogat estile?—You.

20024. What is the explanation—that if the cuttle 2006. What is the expansion were it has sometime re-better lapt disease in more common amongst them.—They get disease where young owing to herry kept in the wet, cold dails in the winter.

2003. Thirty years upo they were not kept as well as they are now? They were kept better in that

29037. Do you know tuberculouis when you see it or is it more hearing?-I have never been troubled

or in these scarsers — have never occu troutees were much in my stock.

19639. What you have stated is probably heavay? —There was scarcely a word about tuberculous there poses ago. 1990. Did you ever hear of inherentials of the 1990. Did you ever hear of inherentials of the 1990. Did you drow letter. 1990. It is compan, do you know?—No; I bened of mili-fever both sever had a cow that had it, and it is near had dispase.

to very bed smeane, 1900). But that is different altogether from cuber-colosis?—Yes, I know it is.

25000. You might self us something about the dirty and distanced condition of the cown. How are the cown loop to the tyres in the country distinct.—In the usual wave they are kept sed.

them clean the love every morning. There are great point taken by some farment.

1920s. Do they often the under before they sails the cover—Generally they do. 20005. Do they put on owenile and do they seems their hands?—I there they went their hands, but I their hands?—I thenk they wash meer names, one a dea't thenk they put on a change of dress, except agents. 2008. They don't protect themselves from the cow-or the cow from them?—I don't see any change of

ress. 29537. You my they wash their hands?—Yes. 29538. You are a member of the rural council?—

1ct. 2809h And you get reports from the medical afficer as reproductives in the district?—He makes reports. 28346. But you ever here of cothecate of typhoid or diphthecas?—Next probabily there were here of vertex. cutes within the last twelve months, supposed to come from hell water, 2004). Have you over board disease to be caused by

20542. Or traced to a certain distribution of sailk? —No. 29648. Is show any difficulty for suyone to obtain milk in your weighbourhood?—Except for a short time in the winter. There are not as many sown calving

in the winter. These we not so many new quivillar in winter as in summer.

Any one of the summer of

cent for well-well from the property of the core axis well-axis yell-beam. He was core even. The well-axis will be the aspective of the core axis well-beam to be core axis well-beam to be core axis well-beam to be core with the stip deduction to be stip of the core will be a stip deduction to be still be a still axis will be a still axis will be still be a still axis will be still be a still axis will be still be a still axis will be a still axis will be a still be a s

where there is a shortege. where there is a storage.

20031. And these farmers who make butter at home,
they are quite willing to sell the butter-mik id sayons ever to them?-Ven

19002. At a reasonable poince—Yes. 20020. What is the price?—I often saw it selling at about a penny a gallen.

as about a promp of gathers, and the indice-milk for making 2004. Do they saw this indice-milk for making 2004. Do they saw this in a man if with providing 7-1 may not if for portified, the saw that in the repertied these is not enough of the, but in it in the repertied of the is not enough of the, but it in the providing 100 milks of every provided with the providing 100 milks of every providing about their where do they have been without the providing about their where do they have been without the providing about their where do they have been sufficient to the small farms the exceedables in its outside in its outside in its outside in its outside.

28 Ellis args up capted improvements.—Ten. 28455. You nouth suggest improvements.—Ten. 28455. In most places.—In a good many places. 28455. In most places.—I would not my the larger union. I would say in a good many. sumber.

Mr. JAMES M'GRELOW exemined.

28609. The CHRIEMAN,—You are a representative of the Craugh Urban Council, Mr. M'Gillings—Yes, str. 28600. Here long here you here a mamber of the body—Fear or five years. 28601. Her it tokin any stops to enforce the pre-2608. Have reperts heun presented by the officer appointed by your body from thise to time?~Σex. 2809. And what feet overtook these reports?—The officer gets matructions to say that the Δet is carried out, and he reports back to the oversell. In all cases visions of the Datries and Cowshells Order?—Yes. 2002. What steps has it taken?—As the law laid

20563. Has it appointed on imprestor?—Yes 2000b. files it appeared on majector:—Les. 2000b. Ley or productives[2]—Lay. 2000b. And they have appointed no professional mas.—They have a professional mass. 2000b. So he s V.5.5—They have a veterinary sur-fector, Mr. Window.

2000, Mr. Winance.

20507, At what period was the Order put into force
by your council?—When it came into operation.

one, may be reporte trace to the southers. In an assess-tion instructions here been carried one. 26000. He reports in the first festimate that certain-violations of the roles had down for the guidance of those capaged in the duity industry have been discovered, and he subsequently reports that on his recommendation these defeats have been remedied? Yes, and if they don't have them remedled in a short time they are presented.

25071. Have you carr instituted presentations? 23571. Have you over instituted prosecutions?-No, because so far as I remember all the recommen-

dations were cerried out

72

Mr. Janes M'Guzzov.-14th August, 1919.

20221. How often does the Urbon Council meet?-Monthly, except for special purposes 2072. Are mouthly reports presented by the efficers appointed f—Tes. 20174. Has the velocitary importor over reported to the council that he found to attend in the dairy breds in Omneb that he suspented of suffering from reberoulous effection?-Not to my knowledge

2007d. Has the lex impector over reported that he found people handling milk with unclean hands, careload in their habits generally?—Yes, 29570. What order was made?—An order requesting the people to take purpose presentions, or that pros-

29477. And no prescutions were ever undertaken?

-No: they carried out the instructions.
29478. Would the officer subsequently report that he had discovered that the instructions given were

observed?-Yea 28009, is there my scarcity of milk for the power population in Orangh's—Yea.
28288, For the year round, or for a limited period?— The country of December, January, Frienary and

2008. During these months, would in be possible for the mother of a family having money to buy, to procure rull?—If may be possible, but there are a great runy who have rancey and named procure it.

20.002. Such a contingency might arms? Yes. 20.003. Where is the born supplied from? From o country districts.
20284. And milk is next in by carto?—Yes.
20284. And delivered through the team?—Yes. 22384. And converse message me towns—1ce. 22384. Are any cown kept in the urbus mess—Yes.

Zama. After any cours aget in the orbin mean—age, but were fire, by vendors of mile.

2007. The main portion of the supply comes from the coder mest—Ten.

2000. Has any report ever been presented by the median officer of health that he suspected the milk as a suscept of intention?—Ten. 20,700 And what artice was taken under these circumstances?—I are comy to say bis order was not rried out. 29000. What did he recommond?—I cannot call to

memory, but I know he called attention to the matter. 20001. What I saked you wan this—Dol the medical officer of health ever report to your council that an outlared of misotions drienes had occurred in the town, and that he suspected the milk supply as a the, one tary he suspected the same supply so a cave of infection. I cannot exactly say that, 20002. Too have no recollection of such a report?

No, not in the norm.

SEGUI Has it occurred in the country 5—Yes,

SEGUI Has it occurred in the country 5—Yes,

SASSAI, I don't finish you in the evidence you give
to the conditions withing the union gree. We are as so the commons whom the weeks area. We are as much concerned with the people in the country as in the sound—in Greencaste there was a great outbrack of fewer. The medical officer straid that the disease

from the milk. 2516. What section was taken by the local authority?—The rural econoli had to do with that. I saw the matter reported in the papers.

I stor the dissert reprises in the papers.

2000. I take it, if the newspaper report was complete, it would, indicate what coder was made, or if no other was made;—So far so I know, there was no 20197. So that the medical officer's report might as

well never have been written, so far as the results conversed ?-You. 29500. How long ago would that he?-Four.or five

25000. About how many cows would be kept in the artem area?—I caused fractly may. 25000. Is repistration suffected in the order district? —Tex. 29501. Have your officers definite

2900). Have your officers definite instructions to enforce the provisions of the Order!—Yes. 2900. Have they reported that they found the assistants of the large unsuitable and unbealthy?—Yes. 20083. And they have received instructions from our council to enforce the provisions of the Order

against the con-keepers in these commit—Yea spining the covariegers in these count—Yea.

2004. And the ingressments that were indicated as being necessary have been carried out?—Yea.

2005. And there never here been obliged to report on a second occasion that the owner of the dairy was obdurant; and refused to conferm with the requirements—Med.

29606. Are there any milk shops in Graugh?-No. 29666, Professor Merram.-No shops where milk is 2060. Processor Mirram.—No stops where max is cold?—There are a few on a small acule. 2008. To Charman.—What class of shop would they be an they what would be known as the auxil bucter's shap?—Yes, exactly.

2009. Do your inspectors visit these shops?-They do. 2040. Have they over reported that they found the nelk stored in unsuitable surroundings?—Yee, and 29611. Prosecutions were instituted?-The Con-

Stability had proscentions.

2017. That was on the sameten of adulteration?— 20613. Have your importors ever reported that they zeros. Entre year important ever reported that easy identi milk stored in unsuntable surroundings, or in unclean vessels in these shops?—You.

20014. What action was taken?—They got untifi-

2004. What action was talous \$\times \text{They got smothers}\$ action to put their places is order,
2001. And no pronountings were over records to \$\times \text{.}\$. As the pronountings were over records to \$\times \text{.}\$. As the pronounting over the first place of \$\times \text{.}\$. As the pronounting of \$\times \text{.}\$. The service out the improvements required?

The \$\times \text{.}\$ Show you a Pool and Drugs Act imspector under your equintiff—Ma. Mer 7000 reductivens. 20048. In that duty carried out by the Constabulary?

20019. Have samples been sent for analysis. have prescrutions been instituted as a result of the

here presentions from insilected as a result of the 10000. This was of fices were imposed on these convincid of uniform principal and the second of the seco Some would be satisfied with the fixes, and

others not.

SMGN Thuy pleased those who might later econs under the help of the magistrates, but those who may configured to driek a maximum of milk and water would consider the penaltica inadequate?—Yes, 19624. Is there a navied of the 20024. Is there a period of the year at which vary few cards come into the town to your milk?—Yes.

faw chits come into the term to recent math?—Yes, 29835. And daring this period the mothers and children terrison to give a milk duet to a child common precurse it—Yes; it is impossible to give it. 2922. Have you may knowledge of the most district!—A sight investigate, but I would notbe confine my mathematically the lower. cridence to the town 29027. Do you think that the condition to which you refer in the town may also be found to apply in the reed district?—Certainly.

25008. And it is quite possible that the corrupted of a listocour's tellings might not be thic to prosees with "-Yes" I know some of the coursests of inheterer cottages and they cannot get mile. The is in the read district.

20029, So the custom to which Mr. Comments re-ferred of the farmers supplying the labourer with milk as a portion of his emoluments does not always pro-veil?—So long as it is part of his emoluments ho is

all right. 29630. If a man were working for a contractor, or on the road, would the farmer have the same interest in giving him a milk supply as if he were working for himself.—I are afend not.

2003). What is the population of Greegle?-About 4,700. 99002 And I suppose amongst that population there would be one half of them coming their brend by labour—I deceasy there would.

29033. And it is quite possible that the boundholds in which these people reside for four months of the year might not be able to procure milk?—Octalniy

20031. Would you think it would be desirable to establish a milk depot under the control of the orbes soutcel to deal with that messagity?—I certainly correct to deal with that meansity 1—I occularly would, because for the hart three years in the countle I have stated there was a farrior for milk. For instance, I made a contract with a milk ventor myself instance, I made a contract with a male weather myself and she did not capply me saying that the milk got very score and that she had to supply her contourer.

20000. Had you a difficulty in getting milk?--I had to do without it.

had to do without it.

20055, And your ones would be typical of many 5—
Ter. There are a good many of the earth that serior
1005. The serior is the serior of the serior that serior
20077, And has those helf the weply's world be
smillable then T—Yes.
20056. Whit is not said-1—10.
20056. Whit is not said-1—10. past put so cauci proce on it. 20040, D. varien?—You.

2004). Are ille better class people charged a higher 2041. Are use nonre-mass propie charges a tagner price than the poor?—No. 2042. Different sellers might charge different prices?—When the milk is scarce the measure is

wery "next."

2043. The necasurement is very socience?—Yes.

20544. Would your connect, in your opinion, he willing to undertake the management and secured of silling to undertake and managehers are consumers, such a dept it authilithed, and would they further, more be willing to undertake to large a rate to meet the cost of dairway, or chospen the mile to the additional angles assure that I deceay working-risases?-I connot meaner that there would be some for and some against that. When there was notification given of this Commission visit

355 Specimen.

29645. Even that statement was controverted by seen members of your council N-Yes.

26646. There is not absolute harmony here approximity. Was it a question as to what they regarded as a necessity—was 31, a question, of degree or of as a sceneity-was it a question of degree or of direct contradiction?—They said they thought there

25647. Portuge they were not particularly oursons to find out?-My idea was that they were not in touch with the working people. 29648. That is probably to the explanation?-Yes.

the essent belouver extract make a constant contract for milt because he cannot get amployment regularly.

29640. Professor HETTAM.—DI your own knowledge
you are aware there is a sourcity?—Yes. It is not

hearnsy with no at all. I can it touch with the working-classes, and that is why I leave. 28000. Mr. Witson.—Is there say popular explana-tion as to why there should be a storings of milk at district: for instance, in many dustricts the blame half on the creameries. Does that coopy keep? is hill on the creaments. Does man occur accou-That is the growal opinion here amongst the class of people I describe—that as soon as the creameries of people I describe—that as soon as the presentation started they could not get savet milk or busier-milk.
26col. That is the common talk of the district?—

20072. You are referring to the conditions in Ornagh 29033. Not cut in the country districts?—No. 20034. In there a creamery acquairy in Oreigh?—

29000. Does the crossacry soil unite?—It sells skim GR. I don't know that they sell pure milk. 19600. The Chamber. Did you over know a perso

who went to the crossnery for a small quantity of new milk and was refused?—No. 2007. Is there much consended milk word?—You Is there much separated milk uned?-You, 2007. Is there muon separates must because they cannot get saything close.

2008. Mr. Wincom—It occurs to one that if these was such a decuand for smill that it would be a very casy matter to test the thing—if the profile com-

cary matter to test the thing—if the propile com-plaining event to the creamery and saked for suffic-tabilities after as the consumery and saked for suffic-tabilities after as the consumery is conserved, whatever without subsequently, but a let have to go away without subsequently to be a let have to go away without a subsequently to the consumer of the proping of the consumer of the consumer of the deep is a society of new milk. It seems to me thought the milk in a waterland.

that if the milk is in a cortain place in the town that

Dr. Huck Harry executed. 29084. The CHAPTERS.-You are a medical practi-

tioner, Dr. Herris, in Significant?-Yes. 20085. What distance is Streentstown from Omogh? -Over tweety-fire railes. Medical Officer.

organisa what have been called "mux come "cover an organization of the power people in the town who wish to get the milk, and let them belt their order and divide it amongst their members afterwards. and divide it amongst their memory afterwards. Would there be any serves difficulty in getting up a body of that kind?—It would be a good idea. 20062. The whole thing terms on whether the state-2003. The whole thing terms on whether the state-ment earlier by you is correct, that there is a demand, if the demand is there, it seems that a very simple amount of enganazione would got over the difficulty. Would you agree with that?—To a certain extent. 2006.0. What would be your plan?—I don't think the creaments would be your plan?—I don't think the creaments would do so you suggest. They would be creaments would be your plan?—I don't she would be the state of the state of the state of the second of the state of the state of the state of the second of the state of the state of the state of the second of the state of the state of the state of the second of the state of the state of the state of the state of the second of the state of the state of the state of the state of the second of the state not see: I think it in or creaments from his was sourcity of still—the sourcity is due to the treameries. 20054. The Chamman.—Mr. Wilson is neutring that

the people complaining, to show the presincence of their complaint, should go and not for it?—I mover here that they could get new mile at the creamery. 25000. That is the complaint?—Yes.

2003. This is the dosepours. A this town, if the 2003. From what you know of this town, if the detailed is in the town, and if the article is in the town, activated in the second and the arrests in a law account and it is a married to should not be an insupersible problem to get the two together, and what I would arguest to you in, that those who are interested in this question should organize what have been called "neith cluss"—home

2006. In CHRISAN—MI. Wilson is semiling one there would be a certain amount of pressure to certain consumeries to carry out this arrangement?—That would be all right. I would agree with that. 2006. Mr. Wilson.—Even wilbout the pressure, the price that people pay for sweet mile is better than the price that the ofice that the orecomery gots for its product!-- I am afraid you would not et it from the creamery unless there was pressure. 20060. The Charasace,—You are afreid the creamery voild not co-operate or give the mility-Yea.

2007. Mr. O'Baras, Do the people use any sub-dicutes for sulk in the way of confermed milk?— They do in some cases.

20088. They have it in the shapen-Yes.

20080. And wints cost of brand, do they use—fixed separated noise or tiened whole milk?—I exact say;

separated oxide or the med whole will a manet may; it is not cold very much is the town.
28 of 0. Do they go constitute without any coloring to their two at all 12—They 46.
21 of 0. Do they po constitute without any coloring as all 12—They 46.
21 of 0. Do they po constrained milkt—Yes, 12 of 0. Do they be a support o things of that sort?-No. 29678. Professor Mercan.—You told us that you found a difficulty in getting milk for your own house.

old?—les.
29076, What did you use instead of it?—Nothing,
20075, Too did not key any skim mill?—No.
38075. The CHARMAN,—Is there much tesds in separated milk in Omagh town?—Only at the creamery,

s for as I know. 2007. Is the cosmery on the confines of the town? It is in the town. 20078. They do sell reparated milk retail in small quantities—ball a gallon?—Whatever is required; even

29679. Is there much consumption of 102-More than the creamery our give. 29890. More than can be supplied?-Tes. 2069). Mr. O'Turns,-Most of the reparated milk goes back to the former?-There are a good many people in the town beying it. 20092. Nost of the farmers want their fell 80 per

ergs. of the milk they send in back again to feed their salves. I have seen consticut when needs sent to salvesh. I have seen consticut when people and for it to the creamony and sould not get it; and the farmers, were approached, and they gave at constitues, and sometimes they would not. They only gave it as a compliment.

20033. Is there any branch of the Women's National Health Association in Oungh?—I think so.

20047. In Stewartstown in the Omegis Rueal District?

—Nor in Geokstown Rural District.

20068. Do you Reppts to know what provided is
mode by the Cookstown Rural Countil under the Digities
and Cocyletic Order [—Yes, I was importor for the I think they thought that we were too strict

and they stopped our money, and they appointed a votermary impector.

Dr. Hour Harry,-14th August, 1923.

2000. What hence's of the Order were you energing gaso. What arment of the Order were you carrying out for them?—I was insperior of conshedu. 2000. As to alrequice and clearflows and reaction too?h...Xea: and they thought I was rather hard, I 20001. And they throught, probably, by making a new apprintment they might reduce the pressure?—Yes; and they reduced the satury to half.

20292. Professor Micross. Do you make to tell tothat the veterinary immeeter took it for half grice?— Yes; and the price that was paid as would not pay whip movey to the driver of a back our.

whip money to me carrer of a nore our. 2000, The Cameaux—And they worly concluded that about the pay was reduced by helf the pressure would be reduced to the same proportion?—I am sure work to rection in the same properties?—I am save they did. 20094. What condition did you find the conviteds in? —When I started they were in a had condition, and

I left sade | ones when my appointment ceased. made them take into consideration the extent of sixspace, vestilation and light. I was teld to confine my-self to sic-space and vestilation, and I did that. It took me a year to get that done, after visiting the cove-6se or six tensor; and I reported on all the caura-

and I had to pay short two hundred visits. 2000. In order to get what you thought was doubable carned out?—What was half designible, not designable 2005c, You dealt with what was impressive in the fest matures?- Tes; and I tried to do evay with the

west places of the case first. . Were you ever obliged to prosecute?—No. was told if there was except of air space and restitation that that would do. There was an order then that they that that would do. There was an order then that they do no impection at all; and then the Local Government

Board institud on an impector, and now they have got a veterinary surgeon. I have seen the sir-holes sinfield beam. with beast.

2008. And the manusc heap in close prominity to
the byre !-! tried to get that done away with. I have
sent to more reports than any man in the North of

2009. Professor Mrryss.—Do they carry them out?

-No. Some of the Cruzuillers have got the idea that which been a sent in a report was to have a prosecution, and get money from them. One Councillor teld me and get money from them. Use Consensor to their stell he wont so for as to may that unless money for prosecutions I would not institute them.

2000. That was a very representable position to take Did you fird my difficulty in getting your require

ments carried out?-Steen with great difficulty and some with no difficulty. 20701. And any alterations you required were small

#2 or #3 would them out. One or two people made great im-

provincials.

2020. At your suggestion?—Yes.

2020. Without bruging pressure to been on them?—

2020. Without bruging pressure to been on them?—

2020. Without bruging pressure to been on them?—

2020. Without bruging pressure to been on the pressure to the pressure that the pressure to the pressure that the pressure to the pressure

20706. Since the new impactor was appainted, have 20100. Since use new imports was apparatually you seen say reports of proscutions that were carried out at his incligation or suggestion?...No. 20706. And so far as you one learn, from your know. ladge of the locality, and reading the local press, you have no reason to think that any prostrutions have

here undertaken? I don't think they could take place without my notice. 29507. Regarding the health of the cown of the distries, it is not a question on which you are an expert, but did it steller you that there was a possibility of

same of the aromals suffering from behevoulous affecsome or the account bearing. Suppose a row dies, it is kept quiet. 29708. It is not noised abread?—No. It is my duty to watch, and I am always on the watch. 20709. Has saything been done by the veterinary

impactor to order to return the bestile of the count— I cannot tell you. There are two improved atheas the other day. There are two improved atheas the other day. There are two improvedors—con-appointed by the District County I can the other is ap-pointed, I think, by the County County. There was a very of supposed authors, and I impacted it, and the witchinary surgoon baried the current at other. inspector in order to entere the health of the come?— I caused tell you. There was a case of supposed

29710. Professor Marray .- Was this cone reported to to police?—You. 20711. The Coursess,—With regard to the milk supply, your position would enable you to state whether it in artificient?—It is not sufficient. 29712. In this owing to a senseity of milk or went of appreciation of its bood value?—Hode. 29713. In there a period of the year in which it m 29/15, is there a period of the year in order it in impossible for the working-class population to obtain a supplict—Yes. They carried obtain an all-the-year. round aggres in any place. I remember on one constitution sitting on a half-broken chale and half a stone in a small satings, and I now a cital gratting baker's brand and boiling water. I now that with my own eyes. 20714. He. O'BRIES,—That was better than too?—I

29713. The Chamman -- What ago was the child?-20715. The Chamber-weigh also were not though-bert or fear years, and three were seven in family. 20716. Could they buy milk?—They were poor; and

2010 tolla tary try mint —They were poor; and they said they could not pay for it, but thin they could not get it if they could peculiase it. 2017. The Chamman—Haw you aver codeced a milk diet and been cold that it was not presentle?— 29719. Would that provail throughout the entire your

or only for a limited period?—Of comer, in the aranger it would be more easily got; there would be more milk.

20720. Does the centern prevail of the farner ample. ing mile to those sugaged working on his farm? -- Some o and some don't.

29721. It is not a universal quatern?—No.

29722. In there any objection to sell unit in small

2012. It have any openion to but many many quantities by those sending milk to the creampy*— Yes. Some of the people sanding milk to the creampy don't keep enough for themselves.— 2013. Preferent Maryon.—In this examps, do yes think?-I don't think it is very common, but it is

common. 1972s. The Chamman.—Is it this contom to provide inhouses with their food generally?-Yes. the indocurers with their room perionally -- x ma.
20725. And often, in such circumstances, they don't even get milk in their ten't-- in some cases, but not all. 29736. The very last that such a state of things as to be found or individual cases would lead use to believe he found us individual cases would used one to conserve that they are not enterly included cases?—They are not. 29735. Would the working-shee population use a larger quantity of milk if more were available?—I be-

here they would. I know one family of ten, and that man gets to a week, and he has to feed his family There is not much margin for extravague three?-No; I have to give there money myself. strict—mo; I save so give there money mysels. In some phases there is very task water. In one case of a new well I got a report from the analyst dust the water was condemned. The Council seem to think that I

was condemned. The Council seem so want them to spend money extravaganily and taxen to spend morey extensionally. Yes 29739. Your interest is in the public health? -- Yes 29730. To subgraced the interests of the pooe?—Yes, 29730. Have you got tuberreshods in your district?—

Not very much. 20732. Nothing remarkable?-No. I was told by for Expellency that my district was a braility one.

19733. So far as the regulation of decisa indicate?

20784. Are children adequately fed in year district?

—No. They are not half fed. When I got into the district there was smallpox and typical fever, het not

If I got my way I could keep the place fairly healthy. 29735. Is it an income desire to be commonly their

Three, is it an instance oreiro so no concentration surprevents the Council carrying out suggestions contained in your reports?—They think is consumited. They would give a solicitor any price he asked, but not a

29736. While they would be willing to provide the necessary means to deal with an outlevent of discuss they don't take steps to prevent the orthreak?-You or Council would not do anything to prevent disease they had to put their hards late their poderts. 20727. Is not that a short-sighted policy?—Is is, The Cosmoil do not agen with me or I with them. If the Government could subsidise some of the impure and Government come subscribe since or the minure and give them to much a pair to provide poor people with milk it would be a very good thing. In Software the Manistrad Consult here a form, and supply poor people with rall; and if they cannot key it it is given from It would also be well if these new breeds of goats which

Dr. Hose Hanna,-14th Aus

have been kept by Lady Danisath, and the use of which been advocated by Lady Aberdect, were got into 20738. Are there many goods kept in your district?cts but they are day in winner. 19739, The introduction of the new breeds would be

19790. The introduction of the new irecula would be helpful in this respects—The medium of the helpful in this respects—The medium of these pasts have the distribution—I am more they would 19741. And they would co-quarte with any echanical way of the pasts would be intenghé forward for the improvement of the invention. I was laiding to a lot of propin about three.

29742. Mr. O'Banos.—Would the farmers appreciate
the goods?—They would not like the hedges destroyed.
I are quite sure some of them would like a gook. I O'Barre,-World the fermers appreciate

know some gordinare would even go in for three.
29743. The Channass.—Woold your Dickrick Council
cow with equanicity the prospect of being called on to undertake some of the expenses, say, of distribution? "Yes; but if you put saything on the rates they won't

o it. 29744. Unless it is made computacry?—Yes. They rill nov a lawyer, last not a dector. They will give a 25744. Unions it is mass compressory: —arm. amy will pay a lawyer, her not a doctor. They will give a lawyer £800 or £800 or £800 without a word.

25745. Mr. O'Benny.—Pethaga the lawyers would sale up this question of supplying the milk in this case. Parmers on the guardinart—Yes.

20749. They would recognise that to supply malk at 8d. or 10d. a gellon all the year round would pay them better sinces than any farming they are doing?—It

20747. I can wreck for that, but I suppose they don't 20747. I can wrece the tant, but I suppose may do
do any winter delrying here at all?—No, not much
20748. They say it does not pay?—Tes.
20749. Have they ever tried it?—I don't think o, not much.

I only know our or two farmers in a manufacturing dis that supply the people with milk, and it pays em. 20750. The Caumius.—They supply people having regular employment?-Yes. I know one family, and they get about 22s, worth of better in the month, not

Mr. O'Burn.-Are there presupries in your distinct—Tes; asperating stations.
20752. They are all sundistinct—Yes.
20753. Do thay get a plentiful supply of mile desing the winter?—No; they don't get helf as much as in the

2075a Not enough to keep them going?—No; only

two or three days in the week.

20755. Do you know if the oreameries store the milk more the year more if the overteen more the many for their suppliers during the days that they are not working; do you know if they take in the milt until they are separating?—I don't think so. I don't think it is sent to them until the regular time it is some to them them are requise some 29755. In some eventuries they do store the milkt tidder than let six small farmers keep milk in their own premisely, knowing that they have no peoper pro-vision to keep it clean?—I was applifulg to one manager

a erramany, and he told me that one supplier sent mile on one cossion in which there were bretles and ordinanches.
20707. Do you think it would be possible to purchase units at these separating stations f.—They never sell any.

19759. Has it ever been saled for?—No. 19759. And there has been no organization amongst the isbouring clauses or the poorer people to see if they could get mile?—No.

could get milit-No.
20100. Do you think it would be possible to get accothing like that down-I was going touch amongst
the people and a great many gave me that newner.
They told me that they would be willing to by milit
if they could go us, and that they would so willing to
trep the goals. They have not the improved brief of
the point of the property of the country of the coun 39762. The Courseau.-You are familier with the provisions of the Order?-Yes.

29702. Do you think there is snything unreasonable contained in that Order, or unmecessarily severe for any jerson envious to carry out the trade intelligently?... No. A greet mony of there are beginning to see the recessity of R.

20103. Mr. Witser.—You have been in force the Order in your own district?—Yes kreing to en-

20064 Have you known of say cases where the encoverent has not a present or any cases below the coverence of the trade?—No. 22765. They have all remained in the business?— You; it would not put my one out of the trade.

20750. The CRAITMAN.-From your own knowledge of District Councils, do you think it would be possible that uniform administration of this Order would be that thillies summaranape or this trear would be carried out so long as it is enforced according to the will of the local authority?—No; until it is taken out of their launds and put into the hands of the modical 20757. You would be in favour of central central and uniform admirestration over the entire country?—You

29768. And until that is done one need not bope that the trills will be as carefully handled or as clean as the public bealth required.—Certainly not.

29760. Lady Eventum.—You think the appointment of a whole-time veteritory officer would be important?

—Yes, cartillols Yes, certainly. . And a winde-time medical officer?-- Most cu-

decitedly.

20771. It would conduce to proper administration of the Order - Yes. 20771. Professor Merross. - Established by a central according to the shoold be

20774. Processor burrows.—Intlantance by a cutbority?—Xes, and properly paid. He should be paid the same as the State paid havpen. 20773. Lady Evissan.—Under the Insurance Act there is a wind-time medical officer, and that is amon-tising of the idea that would be in your mind?—Tea-hat thay don't pay ball mough.

1977-4. Do you consider that all the hy-products of

milk-botter, skim milk, An.—should be pisced under the same rules and regulations on new milk?—Carsinly. 38775. Mr. O'Bruns .-- Do you skink the methers in 2073. Mr. O'ROHN.—Me you think the mathres in your district appreciate the value of milk as a food?— They don't understand the value of it at all. 1970. They don't resiles that the memory spent on ten is better spent on milk—No it they would subser

the is notice spent on mater—50; very would ensure apond it on the or whisky, 2077. I can in your prices of criticon you say that some people give invidents to their children?—Tec. 2078. In that common?—No; it is done to keep

them quiet, 1977, Would not that harm them?-- Yes; but they on't find it.
25780. Professor Margan, Laudscom is possibally fetal to young children?—Yes. 29781. Miss McNunz.—Have 18701. Miss McNente.—Have you many deaths of dillient under twelve modNa?—Irs. 27702. Reve you many deaths between, say, five and stry saws of sec.—saything more than usual?—Mot more than usual. There may be seen deaths in the summer

me owing to had mile.
20781. Professor Marran In that summer discribus? After and manings.

20764. Mas McNarra—The giving of isodanum is
20764. Mas McNarra—The giving of isodanum is
20765. Lady Byzamb—Have you got a Julius
20765. Lady Byzamb—Have you got a Julius
20765.

isoras. Have you a branch of the Women's Netional fealth Association in your districts—We had the miduition down. We see trying to start a branch of arthrition down. We are Tyring to many a sense on the association. You would find a surre or greater and the association. You would find a surre or greater and the association of the a

I connot my excelly, 20791. Mr. Wilson,—The creamerics in your dis-trict, are they for the most part co-spending or proici, are they for the most part co-operative or pro-ciolary enumerica?—They are co-operative. 20702. Has the experiment ever been tried of a

erson who wants milk going to a ereamery and esking or H?—I mover board of it. 29700. So it is impossible to say whether the creamery manager weeld he to favour or walling milk?—En dare not do it without the parmission of the committee. I do not know whether the comthe committee. I do not know whether the committee would do it unless they were paid well for it.

I am seen they would do anything for meant on it.

I am seen they would do anything for meant.

2079b. Mr. O'Britton,—The price they would get for

2070b. Mr. O'Britton,—The price would get for

2070b. Mr. O'Britton,—The price would be the price of the price would be the price of the price 20705. Before you go to the creamery selding for milk you must organise the demand?—Yes, they would

saything to get money.

20733. Perhaps the greatesty manager might say that this retailing of milk in small quantities would Dr. Hooz Hanns.—14th August, 1918.

gree trouble, but on the other hand, if the gree woman, but on the secon name, as the creation; manager is in favour of selling the milk in this way he could being promue to hear on his committee?—

20797. It has not been tried?—No. 20798. Mr. Winson.—It is quite Wrace.-It is certic obvious that no single solution of this milk problem can be found. There must be a series of plays—one to wait on place and mother to suit unches, but where the prise and moment to sain uncount, our warre too ereamenty system is in numbers to be seen to us that the organization of the demand was the solution?—

the organization of the demand was the solution?— It might. Their is if the people have not the matter, and the people have not the matter, as some characters or some matter, as some characters organization of some nort, how the first siting such as got to do it is supply the milk to the people who have many and ace that they can get \$1-\times a.

7-Yes. 2001. Mr. O'Barry.--In there a difficulty about 2001. Mr. U'SMIN-do there a difficulty about pure with in your district—Tax. 2002. Why is thet?—Lough Nowja is the worst place to get water, because they have to go cut-quarter of a mile to get th. I got these with some and they were all condemned.

2008. Condented for wast?-The water is now targeneted with assistal matter. They were not sunk in the proper place, and the council did not build in the proper peach, non-une Common and new committees high enough.

2004. Professor Merrant—and did thay become conteminated with writed mather—Case is send in a disch, and I don't which they brill them high amongh.

a disch, see 1 oom tumme moy after some right forces. 22005. And there is surface continuination y—Yes. 2005. A first would be easily recording?—Eve, but they wen't spend the money. I colored a well to be sawk in one piece and they would not do it, and they spend 200 or 450, and afterwards they had to sink it. spect £60 or £60, and afterwards they had to sink it where I suggested. The council won't do suything

I sek then to do.

1 sek then to do.

2807. Mr. O'Brare, -It seems to one that the Nik be friction as long as you are there?-- I am afraid 2003. Lady Evenano.—Do you think there would be people in your neighbourhood who would keep a fifty goeth—L am were they would.

billy gusthed, ans sees they would.

8000. We have had a valence in many places that
its would has offensingnose to the inhumer if he had
its would has offensingnose to the inhumer if he had
its would has offensingnose to the inhumer if he had
its would have being in May, and another in
Manumber 1—10a.

2000. This new bread of goes will hid at any trace
of the year, and hat the sell frink post 1—1 cs.

2011. Pulsary Merente—Herry you had any ox.

2011. Pulsary Merente—Herry you had any ox. 2011. Performe Marries.—Here you had my ex-perione of mili-home opidentics?—The only one was

perform of the supplier years ago.

SSEIS. And near to recent years -No; it is possible arms of the cases of diphthecis we get may be from it. artile or use cases of separators; we get may be from it.

20015. Of course you are aware that milk is often
a convenient vehicle for the virus of slapshforms—Tee.

20016. Your precise is in the sunt district?—Yes.

3844. Your presides in in the nurs! districts?—You. 5848. Here you any when expected at all?—You. 5848. You would have an Objection, I prevence, speaking presently, that the form Commit should noted in representative lote the form Commit should be irrestricted to early the interest of the same of the control of the c

20017. Have you say idea of the condition in which milk is stored?—They send it sway at copy to the 20018. But these making broker thereeives store the butter in the hones-y-Yes; some loop it well,

but in old ouses they do it hadly. 20818. Some of them small be improved 9-Every eron, cent of them found to improved?—Every one of them could be improved, 28/80. Valling of tuberculosis, what is the uniture of the leion obstay you may be requestly there are your reval distinct.—Palacouscy, and discuss of the joints. 28/821. Glandles is —Text.

2000. Is gloudslar veces common than palaranary? 28% Obsolubre and joint diverse are principally due to cultarmatics of feed; so, for instance, from contamination infile or contaminated food—For. Three was an azimal that I bread stant which was said in a cuttin place and langue by a certain butcher, and it is stored it died of conser.

29824. Miss McNettl, -- he your plane a factory tie-trick?-- There is only one factory in it. 20835. Are there married wearon to the factory?.... 20035. Do they move their own children?-Nome do, but they consect do it to the feeting. Some of

them feed their eldlines at might, and give them will in the day time. in the day free.

2007. Are the methors fairly healthy and vignerate
who broats feed?—You; a great many of those people
intermenty and that destroys them. 29838. Is been-fersing general managet the factory collings. — 1 cg. 20829. Professor Marrism, — What bepress to the child while the methor is origined in the factory? "Thry get

20000. Some old women note as more and feeds e ching :- res. 2003. Mr. O'Brans.-And is it this temperary name that drap the cidhire 9-Yes, 2000. And you find many children softening from paralysis from this easily drugging?—I only saw one or

29803. Brownso I have known cases of children with seed. Brillion I may know the of renarro with their faces drawn, or temporarily paniyee?—I have not seen many of them. The impostor of the Prevention of Crucky to Children Society comes 25684. Yes have a "creelty men," as they call then, going cound?-Yes, he is in Portadown 25000. You speak in your summary of evidence of once speed on windey. Does that apply to the

mency sport on winder. Does that apply factory hands -Not only to the factory hands 29836. Is not drunkeeness on the decrees ?-would not say so, 28607. Because I would say gracelly throughout the country devaluation in on the decrease !-- Scare

26800. Do weenest thrink in your district?—There are some respectable women who do, 26600. Those who can afford 167-Yes.

derrying industry in your locality decreasing -No.

25840. The Characay,-Would they drink methyted spirits - I don't know of such a case. In the Draperstown district they drink ether,

Mr. J. G. Baowse ocareined

23943. The Chammer,—dra you interested in agri-cellere, Mr. Bornash—Yes. 28942. In what district?—In the county Tyrono—in the separated milk world be worth fits, and you cannot feed a owr for under £0. In 1000 three were constrained in 1000 percent and the second Me. Remail's divisions.
2004. Whit request do its imbateful approintion there, to below get an adequate supply of midst-lamp do.
2004. Mine supply of midst-lamp do.
2004. Mine supply division and supply for its division of the control of the cont had the percentage falling but the quantity fell. In 1000 the percentage of botter fit was 3.5, in 1200 3.4, and had year it was not it.—but had year it was not it.—2004 in 1200 3.4, 2004. Percentage thereon, but had year was no captional year—1 don't know. Captional year—1 don't know. The quality was fit-tiones, Mr.(Planter,—I) was. The quality was fit-tinely down all over?—The farmers did not field the come.

for the better fat slone?—They don't. I have the report of our co-operation commerc, and for years the structure has been supported by report of our obseparation creatures, that was pro-quantity has been going down. Suppose a new gives 400 gallons of milk, that would be a fair average good we. 2000. The Chamseon.—That would indicate that or 2006. The CHEMICAL You limit that is a fair average of the yield of the covar Tea. For the nilk the owner would get 27 2s, from the averagery and the dairyang industry is not very removembles?—It does not pay at all. You are just gating for the the distrang industry is not very described on the big and all. You see just getting for the mill; the cest of production.

28660. Is the number of farmers engaged in the

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Mr. J. G. Browns. -14th August, 1912

this set keeping as many cowe as before or more, but they our too fooding them so well. The culves pay them and the store cattle pay them. cus and the twee carne pay many. 29851. Would it be your opinion that it would pay it farmers better to care their cows better?—Rec the birefiles owner to care their sows occuers—east they are well enough cared for, but no feering food 29322. In your operion, it is more profitable to feed them chought them to force a simply?—Yea. Some people cannob dispuse of those mile.

20050. Our you speak of may area outside the town at Sign Miller—Yes. In the district around Sign Mills adic is plentiful enough. The farmers cannot supply it for nothing.

20054. We are more auxious to know if people cannot weare if for stoney?—There is no such thing

One written it or assumpt—range is no some using about our locality.

If you have not been it apply to any part of the economy Tyround—No. In some cases you connot get button-malls, has we can always get new milk.

Sector. We have been both—not in Ormonh—that the second we have seen tota-not in Orongh-that the people cannot always yet milt for memory-T-that in necessaria. They can get it at the accordence, 28807, We have been told that seem of the contraction orders as self-milt result!—They will self it. 28808, but had a recommy manager who told no that he shought it would be unreconcelle to require

creamonics to soil it?—I sen't know what hind of a manager he was.

2000s. It was suggested to many creamery managers
that slay might be unduced to sail malk for each suint. Second as was assumed to sail make for each artual, and some objected to that \$\partial \text{art}\$ principles to the \$\partial \text{art}\$ principles of the beauging objected to that \$\partial \text{art}\$ principles are principles of the \$1000. The feeling that you inheate does not permit university manages the eventury manages—\$\text{art}\$ as \$2001. And, in your optime, it would not be used to \$\text{art}\$ \$\text{ar

parterestly managest has creamed, managed not be un \$9801. And, in your opinion, it would not be un researchibe to compel them to self milk retail?—No and they would be making money by doing so. and they would be making money or using so. 2000. It would not be so much a question of price. It was the creation of the dislocation of the manage-mont of their trade?—These would be a little difficulty, moort of each masses, is could be get over. 20000. It trust cousts a little extra fromble, but it the public health densembed that it should be possible than the receive milk, and it

for the residents of the district to procuse ralk, and if the factures had the rolk, would it not be researched quantity for demestic usef-Yes, and nothing would pay thom so well.

28844. Are the children sufficiently accordand on a milt the 29-4 should say so, but I am not an ampert. There is please of milt available.

2885. In the milt yield improving 9-No; it is

Proof. In the control of the control of the control of the control of the feedings — The sense in them the powerty of the feedings — The sense of labors. If you had a good own six would make 1,000 goldens of mile a year. You examet get efficient when the control of the contro

serve gomeon of units a year. You manned get afficient before for utiliting, no master what you pay. 20007. So fort one of the difficulties of the trade?— Task is a great difficulty. 20005. You think that the pinki of the cow in 40005. You think that the pinki of the cow in 40005. You 4001002007.—Yes.

2000. By reseas of the imperfect milking?—Yes,
and the proces do not pay the farmer to loop the entite

29870. In the despentiking cow lass likely to be efficiently sufficed than the areal-milking cow? - You, and you will likely lose her in a few years.

Solvil. From another yours of view, the sim and and of our Enquiry would be to find some means by which the utilit yield of the cow would be increased. which me mile point of the cow women to increased. For how an edjection to that No-Ten. 28872. That is an entirely new aspect of the question. Mr. O'Barss.—Hew many delry cows would the average farmer have—A describ wently. 20073. There are no farmers with up to eighty or one breaked cows?—No; none with store than fifty.

20074. I suppose no one uses a milking machine?-20075. The CHARMAN.—How many sows would such militer he expected to milk?—From six to ten. 20076. Is it male labour that is usually employed?— o, mostly female. They are taking the man

No, mostly ferrals. They are 6 because the ferrales are not available. 25977. In it the factory week that is effecting the females?-No, exagnation to Americal 20078. Does that difficulty operate to other districts? of would say so.

258%). The extension of it, I take it, will lead to the limitation of the milk supply generally, if is should go on $t = X_{CL}$. 2000. Is the serreity of labour a grewing difficulty With your Set it is getting wome, year by your, and the quality of it is getting wome, year by your, and the quality of it is getting worse. It needs more supervision now than it did before. 23831. You cannot be safe in leveling them unimpos-ted?—No. You would lose on 800 gallon cov in a

tes?—No. Yes we few years if you did. 29882. Mr. O'Barre few years if you sad.

19821. Mr. O'Berns.—Have the farmers guns in for
the loughing of units records of each row?—No.

19865. Weighing the milk once or twice a week 1988s, weighting too may onto or owner a week would show whether the unificar was doing his norich— Yes, but what about the other four times a work?— 1988s. You might have it done every day?—In would e fee much trought. 28880. There is no brouble?—You would have to be brough them yourself. 28680. What is the farmer at when the milking is sting on?—It is hard to tell.

20007. He might not be up perhaps?—Yes. 20008. The fermer's wife might be up?—He might 4 have a wife. Generally, the fermer's wife must not have a suite. supervise. 2009. The CHARGEST .- In the 2009. The Churchen, he me themer a deteriorating shad - Yes; I think she is deteriorating 20000. Is not the Sunday labour a difficulty with 200000, as not the country innotes a university man

your—Scene recept cityet to do it, but is it not not difficult as parting (reperty) does.

28041, Do you seed milk to the overscory—Yes.

18041, Do you seed milk to the overscory—Yes.

1805, Do you been any sich recents of them—No.

28061, He you been any sich recents of them—No.

28061, He was even boys milk recents of them—No.

28061, Do any of the features in your locality—I

18061, Whyd—I don't know.

28062, Whyd—I don't know.

2007. Mr. 1 2007. Mr. 1 Mr. O'Brant.-Did you object to the secuble

yourself—No.
2888. You kept their yourselft—Yes, for a few
section. I fill not went the own to give any seem
suff, because they wen giving, enough, because they
sally give the cost of predicates, you support the
gently for the first predicates and the gradient
gently for the first predicate of the nilk by the feeding of the cost—Circhish you
are a way which the securities within of the milk by the feeding of the cos?—Certainly you con. A mass might be supplifying milk for them mention all right, and may come up to the legal standarded, but owing to work the cost gas before that standard. We control that one goes hat the secondard of the cost of very hand for a man to be fixed when he supplies milk as it to construct the cost.

will have an expensive the state of the stat 2000. Do you find a great difference in the hetter fat in the morning and the evening mile?-Not very usch. 29005. Do you milk at regular intervals?—Yes. 29004. As nearly as ptumble truive hears between?

-V--Yes.
2005. In that case the percentage of butter fat would not vary so much?-No. would not very so much-soft, 29000. Here you are cover their perindently reture to yield up to the standard bulks. So that yields a small 90007. Do you think that a cove that yields a small 90007. Do you think will give more butter fat proportion-the property of milk will give more butter fat proportion-the property of milk will give more butter fat proportion-the property of the property of the property of 29008. Do you think that the feeding of enters on 2000 the property of the property of the property of the 2000 the property of the property of the property of the property of the 2000 the property of the property

2000. to you there must his beaung of entres on separated milt has deteriorated the steep slock of the country to Not very much, but it has a little. 2000. Is the ful supplied in the majority of cases? —You; otherwise the culves would dis. 2000. It is the universal custom to give linear med and finneed boiled to gaive with separated mile? -Year 20011. What do you think would be the average milk yield of the ordinary delay cow, ted fairly well, in this county?—About 400 pillors.

29912. You would not get beyond that?-I don't think to. 20015. And that would be a good-sized cow, fed on good land?—If you fed her extra ske would give races.

Mr. J. G. BROWSE,-34th August, 1929.

20014. What do you think it would be possible to nonesse the yield to with generous treatment?—To 60 or 100 pallons.

600 or 700 gallons.
26015. And it is your opinion that it would not pay
to produce that come quantity?—Not I tied it consist.
26005. And you tield that there was no peeds in it
at all?—Not the sanitast, at the commercy prices.
Supplying mile so a town would be different with
the commercy.—Not just he people who are utiling
and it for modelly.—Not just he people who are utiling it for nothing, 20008. It is regarded as portion of their wages?-

2009. D. in regarded an portion of these wagner— No. brit dang pit in on altiplation when flary are 2009. And there will get his—No. 2009. And there will get his—No. 2009. But here yet is all the sameet—Yes, at 2002. But here yet is all the sameet—Yes, at 2002. The two complex may formule shours at the 2002. And the control dairy, is sub patter mode by a decreased or quant—A chargeaud 7 should say. 2009. All the control dairy, so out of forbidon, such 2009. As the processing how gas out of forbidon, such men are now employed?—It was a faleycenid for the last year I know.

except that you will town notice course, sen one come will give the same supply of milk in the writer as in the summer; but to copply milk to a creamery at 44p per gallon as not sufficient. 2000. They give up to 6d, a gallon in the writer has some places. In it has poverly in the hutter fish of the some panes. In it was powers in the nature has of the milk that causes them to give power prices?—He is not; they pay fol, a railise for one mostly when they are connecting with another gramery, but they take is of 59007.

That is a question of competition?-Yes; care average is something blue 41d. a gallon all the year 20028. Is there my trade in separated milk from the grt sweet milic so readily as they can. 2002. There would be no domand for separated milk h-No, there is no demand for it, and at Sion Mills. Stary would not drink it. I owned tell you why. \$8600, Did you over teste 55 ... No.

20924. Have you tried winter dairying?—Yes, 20925. With wint result?—Those is no predit in it except that you will have better culves, and the cover

On resuming after innohoon, Professor Hottam presided,

Mr. JAMES STRWARD exteriord.

2001. Professor Marsas.—You have bindly con-scated to give ordinate before the Commission, on the question of the milk vappy. Will you be good enough to make a statement as to the condition of the milk supply in your district—Scoop guiling a letter from your Scoretary. I made inquiry all over the district of Strukture. In my own immediate district the milk

Substant. In any own immediate districts the mill-society and the covering of the other one the multi-society and the covering of the other one the mill-society and the consequently of a consumption and the rearrange of calvert— Nov.

A big part of two y districts has no creamany. I would not not say that for my immediate districts they drawn as become or self reverse full first relative them and to one or consumption.

400 sweet their recor men send to a creasury, 20034. In there any difficulty in obtaining mile?—No. 20035. As much as it wanted is available?—Tea. In my own neighbourhood we have twenty-five per cent. my own neighborhoos we can thirty years ago. 2900. Do you think that the poer prople use a larger camptile of milk is their boson over then the years ago?-They use more than they did theriv did yeris agor—hiroy um more tons owny are more yeris ago.

yeris ago.

yeris ago.

yeris ago.

yeris ago.

for so I am see, they have so testate in petting a samply of suits. My own sees see using more than the years to the petting a samply of suits. My own sees see using more than the years the they ware thirty years ago when I begun families.

ESORO, Do yea third that appears to your white trail

ESORO, Do yea and betterwised of Sine Miths, and I sell my better and betterwised of Sine Miths, and I sell my better and betterwised.

Mesure. Herdman grace forty to maky cows every year a cow or two, and they only charge a nominal ways for the grazing. 2000). Is the Deirice and Conviseds Order enforced

20040, You appointed a retrainary sergeon?-Yes, and two sub-inspectors.

25041. Whose darty it is to go round and see the con-

18041. Whose dark it is to go recent and see the con-dition in which the own are hepth—Tex. This withing surgeon execution the conv. and the sixt-inspection with the hyrer frequently. 19042. Do you find this the propring merelly assist these inspections in corrying out what they require them to do.—Text they are all in the water of it. The Original to diff-100 long are as in invested of the loss where did not apply to me where it first estime outs, and it does not apply to me yet. I was Chairman of the Council of the time, and some of the metches thought that I was too musicus to get \$1 look force, as I was not become in the contract of the contract of the contract of the become in the contract of the contra 19948. I suppose the Inspectors are only bringing about a gradual oberign?—Yes.

2004. And not putting the conductors to ice much expense of case 5-1 Chirk they indut on emment force, and or servicing of that each, to keep the here sani-tary. I faink most of the people in the district bare the byras cheared out twice a day. The impectors in-

20043. And the manure bring removed a certain dis-tance away from the cow-byres 5—Yes. 20040. Have any prosecutions been instituted by your Council under the Order f—Mens, except to make them regular.

29947. Threats have sufficed to being about the ex-

20948. As regards the couldr prescully, what come do on venelly on in for at your neighbourhood?-The 20019. There are no pror-beed breis in your locality? 2000. There are no pure-heed brisk in your localings "No. Well, been are some fleenoughrinds kept, 2000. De you find his type of arring has improved or diangeaved in recent years—Need, I think at one time they went down in suffring qualities. They are greatly improved within the last few years. They are party improved within the last few years. They are paying more attention to the railing qualities of the

core.
19955. In fact, they use a row now as a real millolag
machine, to get as much cost of her as possible?—Xee.
29852. When do the cours colve with you as a raio?— In September and October 20033. You so in personally for winter dairwing?-Xes.

22956. In that common in your district?—In is impeoring. There are a great many people going in for 29955. They are the value of it?-They feel it in their

2025. And you me getting a demand all the year round for the supply?—Yes, and your cow mills more result of the pear recoil.

2007. Do you know, of your own knowledge, whether belowalists is occasion in your district amongst the celler.—No; it is not 20058. You keep the cows out as long as you can?-

2009. What kind of feeding do you give them during the water months?—Trentpe, key and straw. 2006. Do you go in for any of the savelled outob-crops?—You, witches. And the se-called hardy greens, and rape, and I don't go in for those. I don't believe a cow so on? I don't go in for those. I milks on greens or sublege at all. 19962. Do you send say milk to Belfast or Dublin 1-No. Simbleto occurrer a good any milk from your district to deal of secret milk. It consumes much more than it drd in my earlier days. In Strateme they have a good sapply of sweet milk and butbonnilk. Thirty years sapply of severt milk and bettermilk. Thirty years agood sapply of severt milk and bettermilk. Thirty years ago it was repolited with thirty sows, and at protect there are 190. I have reports here as to the condition

ere are 336. I have reports nove as the milk supply in other districts.

20063. Tell us sheet the districts freiher afield from the first in the fir 20062. Tell us short the districts firther ou? - I have reports from those districts. post on the report from some managem.

Seeds. Mr. Wilself...-Did yet proper these reports post-side. If of the information from the people that I would be. Domining in about the best larming district, perhaps, in the North of Irohad. Countries

Mr. Jasen Stewart.-14th August, 1912.

started there weren your sloce with a supply of 400 datas per sky. By the layer layer the per started by the they have from Frency-ave to any on tents are much cover than were kept beenly or thirty years ago. The blockness are fairly well supplied with milk, as most of the people chum Sunday's milk, soll they get may smilk at a cheep rate. Before the firm of the now milk at a sheep rate. Become use unm or one connection there was surrout a labource about here gas leave to keep a good, had now there is harrily one of them but has a good, which they got gened with the co-most low about they make the whom there are working. In the Donathouty

district the further or cover usps my use narrows as as ingo as has been the count for the last filtnen years, and I bullove the present acceptly is adequate for the require-ments of the district. In the Leebpatric district narrows of cover kept have increased during the last few years. Paramers have alreed completely stopped storming their milk, and are sending it to the eventory Injuring men are getting all the milk they require and there are never any complaints as far as new unik is occorered. There is a screen of instrument in the economiel. There is a sorrety of brotisereil't in the district, set they reske reperied mile a solutions. It sets Dossman district their is no correspon to the num-ber of coses kept. The absoracts who are keying with the Samers got their nearby of new only inthormally the Samers got their nearby of new only inthormally and the samers and the set of the set of the set of declaration of the set of the set of the set of the declaration of the set of where they are employed. Those Prong is an accordance obliges usually keep goals and get bettermile wherever they can carrie out the whole, they can carrie and according and the chain a samely of milk. In Newtormstewart

wherever Way one. On his white, they can camby and chough obtain a supply of unife. In Newtoniansumi distors, during the pent treelve years, the number of cowes has forecassed about five per cent, and the rollic supply shock from per cent, during the peat tree years. The labourns in the contexp of a supply of ure and labournith from their employees. There is more diffi-table to the context of the context of the concally in processing masterinata than formarmy in the town of Neutroproteomet, and the people are using expension male, which takes its place for backing purposes, but they have a good supply of new male. They have taked a new testing association. 29905. Professor Marchat.—Have you say experience of con-desiring associations.—Laws you say expension of con-desiring associations.—I have been wrighing my milk for the past five years. I corried out a testwinter against sommer; I found it was useful and I

willow expan-sill weight. How find thereby you get rid of the profition cows—Tex. I may say I sold all my good cour what I weighed the mile. 2000. Me. Witson—You mean to say that the mil-The yell expected would be a profitable one was shown by the records not to be pricitable "New. At that then I hived to have a good-locking core. I am putting up the milk squin. I find cover that would not give an except of 300 gallons, and at the present time I have cover giving over 100 gallons, and at the present time I have cover giving over 100 gallons, and they are milking still. Sides. Professor Mirrate.—That slows the utility of the tendence is the still the still

the teny—1se.

2000. Mr. O'Burn.—These good-looking cover, you thought, were giving more than 300 galloon?—I find not weigh their rails. I had good only a from them. would there milk. That peed ones from them.
2970. Bett, of being hey milk recedly, you did not always being heart for recedy, you did not know what value they were from the milk peat of week-bett. It shall must of them in the 200, and I get owns be 24t and they give nace milk. With regard he who developed them, I know that the abbreves between them, I know that the abbreves between them, I know that the abbreves property of the second that the short of the second that the second them is the second that the second them is the second that the second them is the second that the second t

chiaper rate than we sell to the town. 29972. Are the manu bears with 20072. Are the wages larger with you than in those those where the milk is given 5... There might be 6d. a vek in money. 20073. Miss McNung,-What is the ordinary was of an agricultural labourer? So to 10s. a work, and they have a house, a rood of potators, and two to taken tens of coal. They also have geats graning. The poverlettes come to de. or fe. in the week. As I have stated, there is more difficulty in presuring butterurify Making, there is more deposing in presenting that formerly in the town of Newtonnetownich, and the people are using separated will, which takes its place ise balding purposes, but they have a good supply of zow milk. I don't know much about separated milk, but I dre's think it would make a good substitute for butter

29074. Professor Marran.—So, taking is all in all, or think there is an abundance of milk to be you think three is an abundance of mulk to be chievard?—Yes. I expect it is the best mill-supplied district, perhaps, in the North of Inchand. 2007E. And where the internells is morror, it is where the progresses are established, and the farmers don't go in for butter making in their barnest. In some cases the huttermilk secons to be plenteful where the case the instacratic agrees to be pleaded where the overments are. In my district there are many of the farmers sending mift to the creamery, and thay keep the Sekerday algha's milk, and they have mone butter-milk than they want for these own use. milt than they want for their own use.

19976. In your area are there many goats kept?—I

25977. Of course, they are notorious destroyers?-

Note.

SOUR. In the remote constep districts where still is not consider and the four to a histourn, would pres remote that he should have a good or a cought of goods for the years used and the state and the state of the state 2000. Mr. Wilson.—I gather from what you say that there seems to be no difficulty between the farmers

and the lakewers so far as the supply of milk is con-ocused?—There is not. 9961. Are those labourers living to use now were or the old houses?—In the Stealens durings there are or the old houses. They are descently occubied by so sleet confic ago a parisfamily that work is the mile. 2008). Do you happen to know of any pines where biotics has arisen between the farmer and its labouers whough the labourer living in our of these houses. No. For my part, I would be glid to see them more

position.

29858. Cottages 8—Xes; if we can get the right seel of rosa into them, but in the Senhara district we had a large arborne which was just completed, and we cannot find a gaptenticeal habours to coupy them. An agricultural labourer with a fusion is worth from 14s. to life, a week with his perquisites, and you can got a day man for 10s, or 12s. 20084. You mean they all go for the day man in pussequence?--Yes, but we carred get them

20005. Have you ever heard it stated that a man my acced. Have you ever heard it stated that a man ma-plying relik to a creamery will keep too listle for his own use at home?—I heard it, but I believe he would be a foolish, man. he a focusin man.
2000. Do you believe it?—Ke, I think they can
beefly die without it.
2000. We have besul that stated in a degrantic way
in different phonent—I don't kink it in so. Half of
our district has no crossnery in it. They are obsessing at home and writing milk. 29888. I suppose they sell a lot of new milk into the torm of Straham itself?—The district I allude to sup-plies Strahams. There is four times as much milk com-

por or locals. Answer is now then there was five years son-ing hito Straheur new than there was five years son-Tortly-five years so the lath Mr. Gordon had the sup-poing of the town, and he had only from forey to \$9080. I suppose the wirele of that trade of Strabuna is to the hands of the owners of ontile?—Xes. is to the hands of the owners of conserwages, 2000b. Has any co-operation acceptly alterapted to scopily milith-No. 1000b. Dollary with the process of the second second in the second second in the second second in the second second in the was selling new with and before all the second in the second second in the second sec

2000. Miss McNura. - Did he key the milk from the formers? - Lee. eners'---Yes. 2003. Mr. O'Bann.----You have goon in for winter sirying yearself, and you have look will recorded.... 2004. Can you tell us what the average yield of your level in?—Over 500 gallons this year. 29006. Are there many about you who have cown with an average of 560 gallons?—I bend some of them have run up to 1,200 and 1,400 gallons.

20000. But he an averaget—They only commerced inciping records this last year.

80

Mr. Janus Strwarz,-16th August, 1919. "conv. You said there was a sufficienting association

established?-Yes, to Newtownstewert. 2000. You sell milk sets#?-Yes. 29000. What sort of price do you get?-Different 30000. You find that it pays?-Well, I think so.

3000L. I suppose you would berily continue 25 unless you found it paid directly or indirectly?—Sometimes 31 the North you find a man that does not know what is san north you and a man state does use know what in good for him.

50002. You have all your cown calving in the late automa for wither darrying?—You. Very seldom they would be more than a morth dar.

\$6008. You find the period of lasteties in leavest-

50004. And the colves are hetter?—Yes.
30005. They go on to the zerr grass year at the time
what they can get herefit out of \$0.7—Yes.
30006. We have been teld that people won't take up

winter durying because it will not pay, but that has not been your experience 5...No. A cow calving in May. is maken no difference what feeding you give in Sep-tember or October, they drop their milk, and you appear bigse there, see three. 20000. And your call does not increase weight for

weight as the other does?-No. signs as the outer goesv—co.

20008. Professor Mistran.—What do you do with your calves?-I keep there on and father tham. 80000. You fatten the calves?-I run them on to two-30310. Mr. O'Berny.-You fatten them as baky heef?

SOURCE OF PROPERTY OF THE PROP -Yes; I have always half-a-duren helfers coming in in

90 House of beginning.
8003. Of your own breeding?—Yes.
80034. You also tuy some, I suppose?—I very selden. 80003, Do you keep a bull of your own?-Yes, a

thoroughbred shorthern 20028. Bought because it cames from a hard with a ood milling record, or hought simply from pointed-Bought from points. 20017. But of a thososphired built - Yes, a short,

30133. Are there any of the Polled Angus bulls in your mughi-section?—Not reany. I got one a few years ago for the consulty. The people wended as for years ago for the consulty. The people wended as for get them core. They were able to make 36s, or \$2 of the onlyes here by the black bull more than from the shorthoes.

30019. You spake of the labourers who are not er ployed by farmose regularly—that they mosely bave goats!—That is so, in one district I mentioned. 36000. In your district, is that soft—No. 36001. And all the agricultural laborators are living with the formers—You, in our district. 5003. Do you know in these districts that you read reports of, and where they are not living with farmers reports or, and whose days are not uring with stemest and are depending on the goats for the supply of milk— —do you know how they get a rapply in whote, or whether they get any?—That is in the Donamas dis-lered. That is a district that does not go it so much for crustarques as the others, and I, expect they on always get a supply of butternilk and sweet milk 50000. Would you say that more butter was consumed by the people in their own bouses, labourers and small farmen, than there used to be?-Certainly. For my own park, thirty years ago there was hardly one pound of botter taken, and now there is no labourer that does uct use at least one pound a week.

30004. What price do you get for your buttert—I don't tell every man my price, but I could sell 20 out of butter away week at the retail price of the oreamery.

of brillier every wear as the result prior of no commercy, 30005. It that because the people are better off than they were, or that they are putting more value on the milk predects?—They are better off. 30000. It may of these districts that you know of, do they druk reparated mail at all?-Indeed, I don't know

ory has september and the set of \$5000. And give them sweet milk with it?-I expect at in batterralli: that they give them. 30000. Talking of Sicobane, you may that the mills hought them has very more mare-new--are.

3001. Is that because there are better wages round there, or that they are lessing that milk is more of a feed than they thought?—They have better wages. a feed than they thought?-Incy more com-We have two shirt factories in the town, and since they We have two shirt factories in the town,

was natabilished there is more employment in the mills.

3002. Do you think the people generally recognise
the food value of milk?—I don't know that they do se ruch as they cept. nuch or may ougos.

Stocks. Supposing that there is a family with the screens and five or six children, do you think that they reognise that milk in the best and chrapean food that reagrass that finite in non meas and corraption from worther our got for their children, and would buy it accordingly, so as to give them a quart of mile a day each?—That is not commonly done at all. They would in for something that they would consider sheaper, go to for someoning some may They don't consume a quart a day each. 50004. I suppose not. If they had meetsy to buy, you den't think they would do so?-No.

30008. You say they use more butter at all overta?-Yes. 30005, And the shildren quite often have butter?-Yes; they all buy butter, even where there is only a single worker in the family.

60362. Separated milk is hegaly used in Dangannon? Yes. About bries a week we get a supply.

20044. Are there any comments in Drogsmoot.

There are, two miles out.

Does are, two miles out.

Does are the miles out.

Does not be the form these recoveries and old in Dampasson, and is used by the workers in the mills t. Yes.

My. JOHN CONSESSMAN ASSESSED. SCOT. Professor Murray.—I understand, Mr. Con-ningham, you are a member of the Dongamon Urban Council?—Yes. 50362. What do you mean by " oresevery mile?".... The milk that is cold in the country. It is appareted

50008. And you are perpend to give the Commission evidence as to the milk supply to Dungstonen 1—Yes. I evidence as to the film supply to assignment—and have below a goest inferred in a goat round department, and also in a bee leducity. Lody Aberdren has tought one very unerty lessons. I have come here to upon in favour of Lady Aberdren and Lady Deniesth's acknowledge. that will help the people. 30009, What kind of goals have you

30000. What kind of goals have you got in your neighbourhood?—We have got a mixture of the Spanish and the Irish goat, which gives from two to these quarte a day for eight meedle. I have been out in and saw the Germans and others adopt the plan of having goals' milk, as the goat in an azimal that is practically fron from communication, and that is very important,

\$6040. So we may take it that you are strengly in farmer of those who exceed get cown' milk keeping goats?-Yes.

50041. Is there a picotifel supply of cown milk covering into Dunpancon 1—Mo, especially in the winter. I myself for two records mover based invitermills. I look upon what is called "erescreey milk" as nothing

but the dross of a con-

workers in the milds.—Two.

300th But in the planty of sevent milk available for
the both planty of the price of the price.

16007. What is the case of the planty is the the price.

16007. What is the planty is the color of the price.

16007. What is the planty is the color of the price.

16007. What is the planty is the color of the price.

16007. What is the planty is the price.

16007. What is the planty is the price.

16007. The cold to plant now that there was very

16007. Toe cold to plant now that there was very

16007. The planty is planty is the planty is the planty in the p -I cennot get buttermilk. 33coo. But you can gut sweet many -- beet enough of it at a fair price, but we can got no buttermilk, which

\$5000. But you can get sweet milk?—Not enough of is as a fair prise, our two cast give no consecutions of the constraint freely, with polahors, and when you easily polahors, and when you easily polahors brailty faths and receiver, and no consumption in their families. if we got a sufficiency of buttermilk we would have less consumption, because there is a cerbon in it.

Mr. Jone Countries and .- 14th August, 1919. this to you, and you will know my siess. I am in favour

In regard to the question of the goat, I have taken as interest in that came I have come from America, sceing interests in this cince I have come from America, anding as many of them there, seek medium; the Gentrum its their hobita. If a goat ranch was started in every district, any, in Darquenna, a bandred goate could be bandled by one must be 18a. a week, and you would have no eccurrentiate and to delitation. The proofs are gotting as inforce also of triffic. The proofs are gotting as inforce also of triffic.

weekl has found to be the proof of the proofs of goats of world has found to the proof of the proofs of the proo

scools. You want a selecte for the lengting of goats would be feasible and possible in Dungamon?—Yes. and that a quantity of milk could be provided from them guits which would be available for those who could pur-50002. Are them many poor people in your locality?

—Tes; our neighbourhood in principally composed of manufacturing people.

20058. What would be the price of the goets' milk that you suggest might be made available?-I will read a goat ranch that would supply the poor consumptives. a gain cands that would analys the goor concempletes. Allocare would be writted for a good renth, as sides on the candidates the contribution of the contribution of the contribution and the good for goals. I have where goang to be a quither man by graden and shed the beeny, but the sentences and the contribution of the contr 50 per cent, maids of three years, and give these par-ties liberty to go out and work, and strive to be indus-trious, and reduce the rates in. 61. In the £. I think the farmers ought to listen to me now if they are born.

of strefing a sanusceium on Alimore mountain, which is 800 fact over the san level; also a bee industry; also

Mr. B. J. Witspot engreland.

30054. Professor Marram .-- You represent the Omag 20079. Prolessor Merryan,....I take it, as a matter of Co-operative and Agricultural Dairy Society, Mr. Wilbusiness, that core you have not your market it is your endeavour to try and keep B?—Xee. son!-Yes, sir. 20056. As regards the question of the rellk scopply,

does a sufficiency of suits come into Omagh for the use of the people?—Xee, cells a large aufficiency. 20056. Quite a reflicient quantity?-Tes. 30007. And there is no difficulty at any time of the year in suyone obtaining milk?—Not if the applicant

20008. What is the price of milk during the year?In the summer it is 10th a gallen, and in the winter a

stilling.

8009. Is there plenty of battermilic also available?

-There are a number of carls that supply the lown. 80060. Milk brought in from the country?-Yes.

20051. Have you say interest in greamertes 5—Σes, I appen to be Scorriery of the Orneg's Creamery. hoppen to be occurrenty of one ornego ornewed, 20022. The Greek Greenery has, I understand, a lage member of sufflightes?—Yes, it has are exclusively. 20033. For the reception of milk?—For the reception

oum.

364. You receive from those auxiliaries where the
is separated?—Yes.

366. What is the proce that the farmer obtains for his milk from the ortamory-what is the average orteo?

—Last year our average price was 4.8d., and we calculated the value of the skin-milk at 24d. per gallen. 60066. Mr. Winson.—That seems a very high estimate?-D reads.—D is not.

300ff. Mr. O'Bones.—Usually, separated milit is
valeed at a penzy a gallen. I always believe it is
voich more, but that is the usual figure got on it.

or the second of the milk. Yet say on an averagy yet,

page 4.88. How o'c you satisfies they average?—On all the

until that is received during the year. These might be men who would be geitling up to 61, per geitlion. Their would be for milk consisting a larger properties of bottes fat, but that is the locate that is peak. 60000, Not the average?—That is the locate. 50000. The quality of the milk sent in to the consensy in on the light side?—Xen. Our average for rulk that is received during the year. These might be

1910 was 4,67d, per gallon. 30071. When does the greater volume of milk come into the overcovers?-Fune, July, August, and more of The time opposition recovers a series of the series of the

delig our viscost to get us winder supplies and winder supply.

50076. You are going in to winder slaying?—Yes.
We see that it is its only thing that will do to advance

one Irigh hutter trade.

10076. In other words, if you see not able to make buttee in the winter season, you remost retain your restorners?....We caused; in Oronga we are doing our

ensignees? --- We cannot; in Ornegis we are doing our best for three years to get that object attained. 86077. Mr. Wilson. -- Do I understand you are a far-mer yearself as well as the Secretary of the Cresmery? -- Yes; I have 260 norse of land. 50078, Mr. O'Ecuse.-- Does the greatenty belong to the Botter Control!-- Yes.

5000. Whereas if you cannot keep your market you have to make a new market the following year!—Pre-

have to make a mer imseket blis following years.—Bendy; we stare emporanging to written expellers by propring better perious in the winter time that we are SCHR. In other words you are unheliditing the winter reportly—Xen.

ROW. You wright give us some files have you treet your settle in the winter time in order to knop up the Xen.

ROW. You wright give us some files have you treet your settle in the winter time in order to knop up the Xen.

ROW. You wright give us ones files have you treet your settle in the winter time in order to knop up the Xen.

ROW. You wright give us come files have you treet your settle in the winter time in order to knop up the Xen.

supply—We seem to give mean recess has any,
been milling eattle most get some retificial stuff,
20083, Have you goes in for eatth coupt.—No. A
few of my friends have done so, but I have not,
90084, You have not brief cabbage?—I go in far cabbarns in Scatember and October. \$6005 Do you grow rape?-No: there are only a few of my friends who do, but I have not touched it.

and of the year have a second flow, as it were, when they go on to the grass?—Yes.

30067. And consequently your milk yield goes up?— 93088. What class of cattle is there generally about

Omagh?—Really ercesbreds. 30090. Has any endoavour been made by the farmers to increase the milk-protoung capacity of the cown by creating with my milk strain?—Anyond here we have been trying to get a shorthorn bull of a milking steels. From my father's time we have seen calfin in the hard From my father's time we have seen cattle in the hard for forty years, and it is my endeavour always to keep the before of these cattle that produce the best renors. \$6000, In there such orsert leads in mileb court— Yes; that is to our detriment very seriously.

30001. That is to my that came that should be kent is the neighbourhood are lost to it?-Yes.

30002. Where do they go?—They go assess to New-castle-co-Tyne, Edinburge, Glesgow, and to Abredoen. 30000. Is it the enstorn at all when you get a good spiloh our to save her helfers and undeavour to bring them into the kerd?—There are some people who do 30094. Mr. O'Banox.—But they are tempted by the hig prices offered?—Yes; the prices just take away that

80095. Mr. Wilson, -Do you keep milk records voundith-No, I am sorry to say I have not does so. 20094. There are some farmers who do it?-Yes, out newtownspowers. 30007. And with satisfactory results to themselves?....

SCCOOL We were told that in this town there was a society, we were tell that in this lows there was a society of milk amongst the working-class population at certain tings?—I don't know when it is. 50000. Supposing any weekingman or labouring man

came up to your creamery in Omagb, would be be able to purchase milk from you?—No demand has ever been made, and no provision has ever been made by the Committee as regards that. 50100. The demand has not arrow, so that provision has not been made for the purpose?—No. I know last water a cost in form earlying home milk. There was not a demand for it.

33101. Mr. O'Berrs.-Wee that owing to want of money to purchase?-Want of money.

82

Mr. R. J. Winson,-14th August, 1912. BHIGZ. And ignorance of the food value of mik?-

The manney went otherwise. There are ceriests paris of The money went observance, the force that would take parter.

80005. Mr. Witness. Supposing a eliteration and as a result of this Commission or some other way that a demend was made on your committee that you should sell milk, not on credit of course, but for cash, have any reason to suppose there would be a difficulty meeting that demand? I don't think there would be any different whateover.

there should be any difficulty \$5105. And, of correc, from the point of view of

figures from the creampries?-Yes, SOIGE. So it would be to your interest to develop this demand if it metered?—If the need acrees, sail it peld the committee, I don't expect they would be opposed to it. Anything that would give the ensurery com-mittee each would be redome. 20107. In the districts from which you draw your supply—I am going now from the town to the country

districts have you beed any complaints of the creamories taking all the mile one of the country and not leaving enough far the people hving in it?-No. 20108. That complaint has not reached your exce?--Not in my district.

20109. On your own home farm I suppose you have
the usual staff of labouring men?—You. 20110. Have you got them in your own oottages or in

Union cottages?-In my own cottages. 60111. And you still keep up the old dustom of the fabourer getting his milk on part of his wager?—The near who maids at the reliting get their milk as a per-quisits; other men see charged to much, but less than the retail prices.
S015. Professor Murrays.—What would be the dif-

80113. That is to say, 1d. instead of 14d .- Yes. 5031s. Sd. instead of Sd.5-Yes. They are never charged what they would have to pay in the town ware See startes.

3018. Mr. Winson.—Supposing a laborater was living in a Union cottage, would be he able to obtain a supply of milk?—There are two cottages adjusting me, and

give the occupants milk at the same price as I give it to my own becomes. Although they are not in your own employment?-Yes ment?—Yes,
39117. Heavise in some of the southern districts we
were told that some of the farmers were loss to sizply
were who were not in their own amplayment. That does not appear to be the custom here?—Not with me.

folls. In your own case you supply those who are not in your employment at all?—Not the your employment at all?—Not that you say that, le connection with the adject that this Connection is travelling shout to inquire into-she alleged sometry of milk. Store is no coacu for coming here. The alleged scarcity is consented mythical, you engree?—I don't 200 Miles oth scandly, it. These labouring men on your place are mar-

beign. Annes incoming men on pers posses of the first 7-Yes.

5021. What would they take from you to the day in the may of new miles -- Winteres they require.

50210. What would they takes -- A quart, and some of NOTES. A quart in the day?—Yes, and some more. 80124. I suppose the ones that would want more would have large froiling—Tes: I may say that some of the men have another perquisite from me. They

heep goals, and some have two.

blaze, Professor Marrian, Brancing on your place? Shife, Profuses Metrice,—Siming on you preserved.

—Tex.

—Size. Mr. O'Britze.—With your existlen—Tex. as a

Size. Mr. O'Britze.—With your existlen—Tex. as a

proportion. If they had not does greate they would as

quite mire mile. If they had not does greate the would

profuse the mile that they had not be summer pres
deally—Tex. presidedly.

—O'33. So without fight mile to mid-to-you had

so supply those with mile in the witherty—Tex. they

are sufficient.—We recome, early if they wanted to

supply those with mile in the witherty—Tex. they

are sufficient.—We recome, early if they wanted to

the supply these with mile in the witherty—Tex. they

are sufficient.—We recome, early if they wanted.

got whatever they require, even if they wanted a gailine.

20129. Do you find that they keep sufficient milk for their children; take, for instance, a belower and his wife and three children, how much milk would they get

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—would they get more than a quart in the day for the family?—You; of course it is just according to the number in the family. Some get a quark, and some two quarts, and some three quarts. 30110. Do source of them get as much as three quarte to the day?—Tes.

80181. Would you mind telling us of a case that yo 20121. World you mind telling us of a case that require it they get it. 152, You cannot my smelly how much?—I really so, Some of the shillows might be lived out some

earmst. Some of the shillers might be liked out some parts of the year, and the next part of the year they might be at bome.
2016. Do they go out to work very young?—Tox, from four-ton years up.

2014. To the declarice?—Yes, and to be cattle heeds At present my ploughman, who has a large family, has a comber of girls working in the factofies here in town.

and he has a son away kired with a man keeding eaths, and you never can tell what number of children by has and you have cut in the wars accounted of contract no ma-in the house at the time.

Signal M. Whapers—Her about the Darian Crois-Signal M. Whapers—Her about the normals that the ecforement is not right. Here you were here its specied—Tay, twice. I had Dr. McCaethy, the Local Government Boxel Lawsoice, with me. S0136. Miss McNuma.—Had you may local impector?
-Yes. Mr. Windsor. -Yes

20177. Mr. Wrases.—Doi yee have to mike some structural alternation?—Yee, I had. I had one brild-ing that was going to fall, and I had to reducible it. 30188. But taking the Order as you know M. do you consider it is hardship on the dairy farming to have to consistent in account on the carry manual to have to keep his permissen associating to the provisions of the Order?—There are one or two things in the Order that might be troublesome, but I before that the Order would be conducted to the interest of the dairy trade it were culcreed.

10 100. Tou want to one everyhody treated alike under it?-Yes; that there would be no exceptions with re-

gard to the people making butter at bome. 20160. As for an year know, has the Or 20140. As far as you know, has the Order put any one out of the teads in this meighbourhood; has any one etopod keeping dary tows on anounts of the Orders-Not that I know of. I know one gentleman who has relized from the milk tends, but whether it was as a relies from see mile states say.

2014i. Professor Marran.—Has he made his fact "De gentlemen is Mr. George Mornelan, ox M.P., who has retired from the milk trade, and he was in it who has received mean and miles whole, seed no wars in its for twentry years. That is the only gentleman that has retired from the milk tende that I know, \$0.142. Do you find that the regulathous laid down in the Order have proved to be inknown?—Some Bernaria say that they are inknoene, but I think that it would be to their broadt if the Crear were enforced.

1944. Mr., Wr., and USBN TWE Exformed.

1944. Mr., Wr., and USBN TWE Exformed by the production of the short fire very fix the production of the short fix t 10148. Mr. Wilson.—I entherly agree with you.

seen how the sulfit is seen int—Nex.

2014. Do they seed it in peats should be have been a 2014. Do you over here to seed milk hard because it is not in decorate decolition, to heaves the some seen the contract of the cont 00100. Miss McNmm. Do you fine them if they send in dirty milk? The way it is, is that the milk is refered, and that is fine enough. Still. What happens to the milk when it is mound?

They might use it for cattle if they bled, manager shocks their case next morning to see that it is not cent spain. In Omega creamery the manager is 30102 Mr. O'Britis. — You have a very good manager, I known—Yes. I wish all the managers in Ireland

3015). Do they silow milk came to be sent in with cloths under the His?—We used to, but the represen-tative of the Organization Scotety made a said a

Mr. B. J. Wilson,-14th August, 2212.

number of times and the circle west over the heige, and there was some very expensive inaguage used. and there was some very expressive impage used, and very few cloths appeared allocateds, solids. They were blown away by the violence of its ingrange—they were got viol of 1—200.

2010. Were they not kept clean as a walet—30 matter how clean you kept them you cannot keep them no entered the control of the them ready wints. They are deem enough but they get a dirty yellow colour. \$0156, The case I suppose too one kept clean P—Yes.

50156. The came I suppose too one kept clean N—Yes, 60157. Do you seem out the came for them before putting for the operation partial position for the operation partial position. So job. You have not got a theore platform for them?

—Yes, for the purpose of treatm anne, but not fay the witness mak suppliers. ceitissiy max supposes.

10156. All your milk suppliers are membere?—Yes.

10166. Have you ever considered the advisebility of
having a thann p4 on one of these cleaning pholosoms
at the commery, so as to ensure that one are
higheroughly cleaned at least one as day at all overtain.

—We have one.

2016. But you don't use ith—I; would be almost
impossible with a barge supply to god it does.

Suppossible with a barge supply to god it does.

A delay to the suppliers of precidently twenty-free
and the yould make a delay to the suppliers of precidently twenty-free
mixeds to every out, and the large century it would
make the week instead of ladag over at about
2019. I don't you've had to be large century it would
make the week instead of ladag over at about
2019. I don't you've had not be supplied to the property
platforms as that, but, of comes, it does could gate
work. A small by bringing in the milt would not have one.

The committee do not see the necessity of scalding them at the creamery. The member who sees the there as the creamery. The menager who sees the case delly has a face knowledge whether they see scaled or cleaned. He can see if there is now officeing orean.
N145, Mr. O'Brins.—Do you know snything of the 30105. Mr. o mann—no you cover the manner or no cover that supply mile to the creamery as a rule—you know the class of aumnit?—Yes, they are mostly cross-lepis. We might have on old Polled Angus, or an 481,975 gallers.

30107. How many applies have you?—I cannot tell you that.

20166. Can you tell us what was the average peoduce of a new or herd roughly; do they average pro-duce of a new or herd roughly; do they average up to 500 pullous — They oughly to. I have some cown that sturage a little more. \$6660. You have not gone into that question of the yield of the suppliers' court -- No. 30170. Mr. Wilson.—A 500-gallon over would mean appensionally that 1,000 cows were sending milk to your eresonary. Would that represent your figure?—

be alle to handle the case homself!—It is not exactly that. It is the drivy in taking of the case and

getting them away opain. Of course the cream cass are subjected to that, but the codinary milk suppliers' caus are not, became the committee consider it quite enough that the people at home clean them.

80366. Prolemor MEDTAM.—But do they !—They do.

Mr. WILLIAM JOHN AMBRICAN CHARGINGS.

30171. Professor Marray.-I understand, Mr. Noticeson, you are manager of the Oungh creamery?— Arthemoto, 700 are mercan as the soft of the first test of the fir

33174. Mr. O'Barry.-They sell the oream to you?es. 30175. You okney cosh one separately and give them the price of the butter, less manufacturing expenses —Yes.

Suits. Mr. Witson.—Are each of these surflictes
free to send to you or to some other from?—They must
send their entire stuff to us during their period of

SULTY, They can break the agreement after a specified intro?—Yes. 30178. They have Home Rule enough for that?— \$1579. Professor Merran.—As we understo \$00,000 gallous terms into the onestery annually?

Tes, roughly that.

50580. In what condition is this milk received on
the jabilers, generally speaking 8—In a satisfactory
condition.

50580. But constroutly, of course, you get driey
milk?—You will have the appearance of dirt in it
househoulds.

scontopally. Some endition of the milk weald justify you in principal process are not the control of the principal process. It is searcely ever in the control of the start to principal reason that we refuse it if the sour.

South the principal principal is sour.

South the search is it is dirty—It is not dirty. S0198. Not because it is dirty?—It is not dirty emerge to return it.

30194. We heard occasionally of milk being rejected because it contained all nexts of things—block bedder?—Xon will saidne find that. The greatest come for witning the zell's is because it is rows. If it is not properly occled in will go seen in a very shock

BOHG. Professor Merrans,—Do you partencise the milk at all in the creamery?—We partencise the cream. 80186. You are funding, of occurs, with the

postsurising propess?-Yes. 50387. Which is the hest method?—The pasteurising is a great advantage in every way. Store navarings to one, may be seen and the holder reconstructed in the better method?—The one that appears the milk to the higher temperature for a short time.

\$5120. Do you think the whole volume of the milk is raised to that temperature?—Yes. \$5130. In what part of the milk is the temperature takes—in the thereometer yet in at the mile or the Garden - I we the description of the six the six of the

of the commery?-No

servage of the occuracy?—No.

50598. No complaint has been made with regard to
the washings from the floors and vessels gitting into 80100. You know there have been complainte of polluted atreams?—A great deal of that is due to the man't lend it passes through. the man's land to person through.

20200. As regards the sludge, what do you do with

117—We throw it into the servers.

20201. In 19 not too solid to get away through the

server?—No; it gets mixed up.

87202. Do you find getting rid of it any difficulty?— Not the least, ios the least. 30933. An regards the separated mills, when a he farmer take 157—An soon as we got it separated the farmer take the former take 157—de soon as we got its separated, and a collect, and he takes it best in the care can 1—24. COM. Consequently it would be more to less makes. A comment of the collection of

as non-neutralization — a would not go that length.

50005. If would, because the temperature to which
the milk is raised in not sufficient to destroy all the
micro-organisms?—100 degrees is very high.

50002. As regards the leptaneted milk, is 16 not a fact that it undergoes a change very maidly; does it not somer or liter become purid!—Not if properly

80210. Does pasteurised rulk keep awart as long as unreasted milk?—It should keep sweet larger if is SCELL If it is not exposed?—Ter, and properly cooled down.

30212. How long would shim milk that has been depend on the conditions under which the farmer keeps is. It should have for twenty-four bears if he keeps it. steps 10 in a cook semperature.

E0015. What opportunity has a favorer for keeping
the beauterstern down?—I am often some of them have not the total temperatura.

10036. And Te the summer time it is earled a certain distance along the read and the temperatura is pretty high by the time it gets house?—Loc.

20036. Next due howe would be as edges from the state. I would not say that. It would have gone sour.
It would not be potent.
20210. In 16 not a feet that pestweried units makedefined, is in one more than presentance, some names, gone pathodrican—Soll, the way opposite.

EGG17. You don't pasteration is to prevent palestandon—We done to the pasteration in the prevent palestandon—We done to the pasteration of the soll that has been secured in the institute and beeffit destroyed will go puleu 2-Yes. 50219. Are any other organisms added when the commery sunds back the represented raffit to the farmer? 80090. Is it use a fast that the leadin acid burterin in the milk present and keep in check practication? From 10001. Mr. Witson,—You bound the quotaline I was perting to the less witness, Mr. Wilson. I reach to weer year views on the question-the possibility of a seesment totaling new side. Suppose a labouring rass, goes up to your encursors and sain for a part of and goes up to your enumery and ansa for a pair or oth and hands you a persoy, are you willing to make min?—The meanings is yet up for making supray for a min't—cres encourage is you up to making thomay for the farmers, and I don't not may recent why they would not sell with. It is all a mother of it is in If there was a market created the creamyry would sail 90222, And h \$2222. And h provay a pint is a reasonable price from the point of view of the creamary appropriate with what they got from the mile by tunning it lead braker and suffing 17—Yes.

5025. So for an you know, the createsty system on
5025. So for an you know, the createsty system on
5025. So for an you know, the createsty system of
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502 1000s. Have you over their necessary Mexicon has anythmap of the solution of the property of the solution of t 80224. Have you over been solved for male in that ites b-res. 80228. Does 180 degrees desirey the licetic sold 50200. Dees 100 organis beauty speciment—Ho. 50220. They remain eningared at their temperature? S0220. They means uninjured at their temperature?—A great many of them.

\$2500. Ara, therein, the separated suffix when could shoot attempt to the separated suffix when could attend to the separated condition.—Term.

\$2500. Ara, it is ward and partry as it would if it wises purvision in the series to the series of the series and the series are presented and then seen bank without any were partnershed and their seed bank without any other process. In the control of the control of 1000s. I went to be replicated short it. If you partnershe milk seed shot recogned it to the control line of a journey here to open earts, the partnershe office and the short way recognized before the world with Sandhol in that way wrough partnershe will be a partnershed to the control of the contr here never seen is in that state after two or three days, and I have it in my own house for two or three days. d I have it in my own house for two or three days. 10254. Perfector Murran, And had it been pas. terrised?- Tea. segas, Mus McNurze.-To what temperature did you my?-185 degrees.

hot, 60d Aller two or three days.

80218. Do you could the separated noisk in the recounsey before giving it hack to the suppliers?—Ecc.

80239. To what temperature?—No file-fire or filey. atx degrees-on low as the water will sesson we can bring it down to about fifty-six 20240. And you being it down to fifty-five or fifty-six degrees before giving it back to the appalient?-37541. Boosses of source, when it comes from the operators it is at a very high temperature—L a antbose 303-22. And it would be cults hot, but you seed it 30361. So you could drust it as it came out?—It would be nice for draining.
Itself. Del you object to the tests of it?—It never old me may have.

10016. Did you find it unpublished—No.

10016. Mr. Winner,—You soil a good deal of it, da
you — You. 10020V. Do you sell it as a drink or for call-faoding? Largely for making beend, and using it with portidge 80048. Don't the farmore went all their milk beck?-They got to per cent, of their milk back. It is incommitted to get it so fine that there is nothing left, There is sirengs a suspice where you been a large There is through a benefits when buy topply. Do you know of any furnilies who buy 1929-19. Do you know of specifigs?—I don't know what they do with it. It is used for cocking purposes. 92556. You don't know any men who sivile it is the middle of the day?—I dute: It myself in the middle of the day.
SOUTH, You don't juppen to know if the farm ishourer cornes in and gate a drink of the supersted with the superstead of the have go experience of it, but I see on soil. I don't see why it should not be. 30452. Would you know may objection I sen contain it is so 30MIL Worsts you neve may believe the your think it would not much no creamery manager do you think it would not much to prove difficultiest—I don't think you would consider it would be toubleooms if it was we would consider it recent to represent the first long year. So seek that have been as a series been asked. It supposes, to 2008b. Year have a series been asked to the first long asked to the series of the long asked to the series year in the long asked to the series of the long asked to the series of the long asked to the long asked mers.

191255. The supply is going up?—Tea.

191257. How many days in the west do you work in

191257.—These days. Car you give us an idea as to the relative of milk their comme tota the commercial a quarter or one-third?-I connot say of the moment, a martie or resolded heal control say at the married, and it is van iceding over the figures body seal. I call that it was iceding over the figures body seal. I call that for the had four years it has increased thereton, or cond. In first years, object per cond. He says resolved the resolved of the condition of the person person of the person will be a person of the person of t December, section is given by the section of the print of co for winter analyzage in the whole system more 2005. There is a base in the value could not one of test—test and once particularly be small former or such viets. Sixty in the visits fairful. They always make the property of the visits fairful. They always make through with the could be compared to the fair through with the could be compared to the could be compared

mediately after it came from the superstor while it is

2023). Mr. O'Bare.—Have you ever drunk the separated milk coming from your oreometry.— Bayestedin, 10237. How soon after?—I have drunk it in-

My. PATRICE M'LOUGHER Examined

20264. Professor METTAM.—You are a member of the Urban Dathiet Council of Ornagh, Mr. Mr.Loughlin?—Nee, siz. Microghilot—Nes, sits.

30405. And you wish to give the Commission zeroinformation in regard to the stells supply?—Yes.

30566. Is those much difficulty in obtaining milk
shoughout the year in Gmaght—Yes; particularly intertal wisher, and also to reason critical in the summer,
as regard: the poor people.

\$2050. It is to because they exerued infined to buy it,

bucause it as not available?-Because at in not

or possession as a separate of the milk pureayed in Oneight-do carts go through the stream?—There are milk certain on the country. The former sent in by an amount in the order, years ago, was stat most of the mile was supplied by male vendors in the town. These was then an ample supply for in the bown. These was then an impee supply for all parties at a cheap rate, has these weaders gradually disapported because the rests of the lead because too accessive, and the supply of milk fell into the heads 50209. Are there my milk shope or deiries in the teen where milk ean be bought.—There are one or

two, but they ere practically non-existent as the present time.

30250. So it is difficult for a person who wants a plate or a glass of milk to got htt—These country milk carts have customers and it is difficult for others

to get milk unless the farmers have an executive amply. In it partly due to the fact that there is not a constant domant!—The demand is constant enough, but they don't have a sufficient supply.

3022. Mr. O'Brass.—The supply is not constant.—No. In without it is vary body, bostone in the cummer the casts deliver being a day and in the writter out.

one care detiver summe a day not in the variety east cone, and the supply in not as all requil to the demand, 500TS. Fredmace Marrant.—And what is the chrestor of the milk that you obtain in the streety—These is no complaint as to the quality; there has been an odd complaint, but it is not ploaved. It is more to the ward of milk than to the infector quality that the complaint, he have made to

occupions has been made.

39274. In the Food and Drugs Art put in force here in Omegh?-Yes, it is, here in Offsegar—zes, so ss.

39275. Samples of milk are occasionally taken by
the gelion for namiyels?—Yes,
59275. For adultionation?—Yes, but that has sellen
occurred, and the general complete is that the
magistrates wen't correst, or, if they do, the fines are

merely possinal. 30277. Proscoutions have been instituted?-Yes. In the case of milk porveyors in the town?-Yes. The police look after that and they have some

Soften Can you give us say idea of what you would suggest as to how this sherings of milk night be orseconnel. I have green the medier seem thought and my opinion is that the commerce, both in sown and scontay, and particularly in the town, should

prosecutions.

have a supply for sale for eweyone who required it. 90280. Having a small depot in connection with

the creamery whose people could get and obtain milk if they required #7—Tes, and I would say that they should supply bridge-nills as well as awart milk. because the shrefage of butter-milk is one of the greatest complaints we have. Twenty years ago

greatest complaints to have still in one of the three property of interesting. The poor classes and accellant report of interesting. The poor classes used it largely for analong bead.

40081. And as a boverege?—Tes. In the absence of their control of them fright perior. I would go so far as

The Countinies than adjourned.

FIFTY-FIRST DAY .-- THURSDAY, 15TH AUGUST, 1912.

The Commission visited the following central creameries in County Tyrone :-Omagh Co-operative Agricultural and Dairy Society, Mountjoy Co-operative Agricultural and Dairy Society, Drumquin Co-operative Creamery, Dromore Co-operative Creamery, and Shaneragh Co-operative Agricultural and Dairy Society; also Lack Co-operative Auxiliary Creamery in County Fermanagh.

to say that the croameries are blamed for the whole scorniy; and that being so, they should scoply the supply the west. SCHIL Mr. Willow, Lis the shortege the same in the sammer as in without 120.

\$0000. The crownery is chiefly working in summer?

The control of the co

30897. And if you have it in the surpely all the year round at large at you have it in the summer, then the supply for the public would be at its best all the year round?—Tee, but it would be at its best all the year 30388. It would be at it is best.—Tee.

SOSON. At consequently, so for as I am able to SOSON. And, consequently, so for as I am able to understand the argement, the stotement that the coresner yeatern, as used, has aching to do with the shortuge?—They are responsible for the shortuge both in the summer and in the winter.

10050. Before the creamery system existed, was there score. Indeed the december system existed, was thus aver a time when overstoody got encepth—Yes. I said that investy years ago there was a sufficient supply of batter-milk and awest milk, and I give the explanation about the vendors disrepressing owing to the excessive prices they had to pay for the land about the town.

30991. You are quite chur ahout the destrability of the creamerise becoming picous where milk could be obtained for sale for cash."—Yes. I was speaking to a creamery manager and he said the was quite feasible, and I quite agree. They proclasse for it, a pilice and they could result it at 19th, and they should have for making bread, but for nothing also. No one our use use it. It is used in some cares for making home

\$0000. It seemed to me that you were making distinction between reparated milk and the bettermilk coming from the greaters 7 -- What I want to say in

coming from the producty?—With I wash to say in this, that they should self batternish as the creamer. People den't wast separated milk except for break-making. The creamerses should churn in the ordinary way and have butternish. Before creameness were established, there was plenty of bettermisk to be obtained at chesp prices.

80094. Does snyone buy the hattermilk from the erestrony as distinct from the separated milk?—There 50895. There is, There is butternilk and arranged milk made at the creamery?—I was not aware that they ever had buttermilk at the creamery. If they

have, they are hidden their light under a bushel. I was not awken that there was any busternilk made at the creamery—I mean butternilk as made before the establishment of everneries.

FIFTY-SECOND DAY .- WEDNESDAY, 2ND OCTOBER, 1912.

The Commissioners met at No. 5, Upper Coole Yard, Dublin, at 11:30 a.m.

Present :- Sir Stewart Woodhouse, M.D. (in the Chair); Lady Everard; Miss Mangaret McNetle : G. A. Moorhead, Eas., F.R.C.S.I.; Alex. Wilson, Esq. ; Dermod O'Brien. Esc. ;

J. R. Camprell, Esc., R.Sc.; and Professor A. E. Meytam, R.Sc., P.R.C.V.S. S. W. STHANGE, Esq., Secretary.

Mr. Campung. .-. As our Chalman will not be present, I peopone that Sir Stewart Woodhouse do for the chair. Six SERWARD WOODNOTER took the chair.

Mr R. A. Averracce examined.

30206. Sir Straver Woodcount.-Mr. Anderson, of posturisation at low temperature is not open to you have shooly given us cridenes here?—Mrs. Anderson, you have shooly given us cridenes here?—Nos. 30297. And you have occur benk to sidd something to what you have already told us. We have held before us the possibility of overances celling relik. It was a question which came before this Commission. It was a processe which come before the Commission of the Commissi speaks in non-creamenty districts than in controlly latricts. The great difficulty I see to be dealt with a that there is no downed for milk. There is a great Children agreement of the the section of the sectio and to among through the commerce or through indifferent increases who are merchage of those occuments, for such augustic. Of occurse, in districts where we have no societies it is impossible for us to do societies, that there are several other agencies which I then could bear are several other agencies which I then could consider he associated. For instance, we gri in conpossibly he seemed other agencies which I return, the possibly he seemed to be advance, we are in consistent with the United Irishwapper above it. The possible possible is the United Irishwapper above it. The possible of the seemed above them to be made, and have themed above the middle apply the different with the possible above it. The possible is the possible in the possible in the possible in the possible is the possible in the possible i a supply or good pute mait all the year round. It is not difficult in assumer; but in winter, where mile is not much produced at present, it is not easy to get the featurer to take it up. In cases where treasuring are worked through the winter, and where they only on. are worked through the winder, and where they outly not ceive milk there there as weak, they is a certain assected of difficulty in dealing with the problem, because the multi is not as such as it subject by an until we can get the factories to produce sufficient wiff, in the winder monthis to make the possible to have a delity delivery at the treasurery. I helieve we shall have to make this hast we can out of this bed state of have to make use once we can out of this see man of things. It sypeams that (although this is not an

of pasicorisation at low temperature is not open to the same account of adjection on the pastegramation at the same account of adjection on the pastegramation at We do not then that the grategramat milit is not signe dead for adultion at all, although every-looly will ex-ist in probration to us milit, and if it is given, and it is probration to us milit, and if it is given, and think it would be found in process consistent to a great improvement. We here that the price formore sould get for milit seat that we will be decreade enough to get some of the more properties to defend enough to get some of the more properties to increase the reacher of core, and in any case where the scheme is carried out, the supply of milk would be limited strictly is cortain a year yed framers whose farms would he inspected, and might be trusted to send in good milkhe inspected, and might be writted to send in good mid-52599. As what incoperation will be the pestionne-tion, and the time of exposure?—Edge sypectre; 109 degrees for toward minutes. As person they pes-terizine to 100 degrees, unit even higher, and the swrings exposure would not be more than three minutes as that temperature. This, of ceases, can be done in the cerements and must of them have appeartus which would be sufficient to deal with any ownstir. 10200. Pastauriso all millio-Yea.

50300. As is cores int-Ves, as it came in; and deliver it in autitable vessels, or give it to people who came to the areamenter. But, of course, we reesquise that in bad winter woulder people will not sand their that is not written wontage propose than from such tasks children long distances for mills, and we must key to arreage to have outlying phone of distribution, where reads, and colomb, and places of these Maria. But I don't think we shell have the smallest difficulty in partiag the commercial to take is up. We seat vousd don't binkt we skill he've hie samiless difficulty in guilturg the conservation to his in up. We sast varied to which there is a fair copply of mill—Congple to re-act Glores is actionly. In binkt bices piaces the commis-tees, who had now given the matter much thought to see the same that the same that the same state, who had now given the matter much thought state, who had now given the matter much thought state, and the same that the same that the same state of the same that the same that the same passing and the same that the same that the same what are well do in the frequisition floating when our committee consider this maller, as they will not week, will be to issue a committe lotter to the creameric calling on them to do their part in beiging to remedy this Mote of things, and I think it is much more free want of thought then went of heart that the matter has

50801. Could you give me, even roughly, what proportion of encanaries there is, and where, at which milk might be available dolly in the winter time. We come access three hinds of consension, those remains in wrater and surfaces fully their which does entirely in the winter and those which does open for west.—Bought goarding, a thould ask that the majority of the constraints in the North of Todacel would be use west.—Bought goarding, a thould ask that the majority of the constraints in the North of Todacel would be use to be a surface of the terms of the terms of the terms of the constraints in the terms of the terms of the could supply three days or four days a week, and in these cases where constraints are about oney control to these they close because they have not got a sufficient than they close because they have not got a sufficient quentity of mult to make busine motion profession. oams access three kinds of commercies; those running things. It appears that (athrough mos is not an ideal plan), you can get this milk peakeurised at a low-temperature with a long exposure, keetend of a high temperature, dealing with the cathre supply of milk temperature, assuing wine the enters supply at must to the creament; and I am told—there are medical gentlemen on this Commission—I am told this plan

Mr. B. A. Angennon.-bud October, 2012. there is a demand, but it must not be a sparmodic demand—a demand for a quarter of the farmer's milk

But that does not mean that they would not take in a small supply of selected mile for result, because or ping expense is attacked. They have never thought of 3. If it was put to them that it was a duty they owed one day, and take it all next day—it must be a regular to the commornity, there is enough public agent in them make them do it. \$6300-S. In summer they would have a considerable measure of profit?—They night sell is for less. I men-ter: 8d. a gallon because I think that would be the winter price, but I think it would be less that that in

20204. How much?—I dam my a farmer petting 64 for nummer milk would be quite autisfied. In the good commercies, with the present price of butter good creameries, with the present price of britter, they get paid should a gallot on the ownering for the neith and get the aspected milk back. If they get dol, they would not be getting more for the whole gallot than they so now griding for the milk pine the wine of the aspected milk. 2006, Tays would get have much posite in the

summer?—No. minser—No. 50806. In winter they might have some moderate

300%. If it was trived by two prace to 8d, a gallon in the winter time?—I shink that would be a very anishedory price—8d, a gallon for winter. I think no fermer would loop his milk at home if he could cet 84 33338, Dr. Morragap.-That would be determined by the demand?—Very largely. Of course, a Of course, a great present our cours do not produce as much milk as they present on the production in grade leaver than it much bloods, the production in grade leaver than it much be. If you had a good stream of cown it could be juggessed for beyond the figures I have given.

30000 Mr. O'Banne.—We have evidence from saveral people that unless your cows are producing 500 or 650 galleon in the year, it would not pay at present oreassery presen to keep them in milk in the witter, and orefulnity beta has been may experience to witter, and orefulnity that has been may experience to water, the certainly that has been my experience of a good many in the country, when man in went of still. The class of casts that they keep and that can live in the country can maw produce anything this that amount of milk. They think it a good million in the West that produces 250 gallons or 800 in the year?—Yes.

in the pearl—Yes.

SOIIO. Whether in Constrains and the more meconious districts they could grow a better class of estimation by heaving values look, and whether they could grow be also as the constraint of the it will-because eithough there is only a limited smouth of selfs takes in the uras measures, are now note, hearth from the sale of their milk at this price in the winter will show other men how they may produce white milk at a profit. And all the different bedue of work throughout the country, the Department, curof milk taken in the first instance, the few men who of rock throughout are consequently to the people have celeven, and all those, both and assisted the people have to got better cover, and elizations the bed cons. and in-comments mails yield generally; and how to treat the write—to know it clean and frosh. All this is help-ing on, and it think that this achieve of starting these ing us, and a wink that their scheme of starting these thats or associations for the supply of milk in the country districts will, parhaps, do a great deal more than we at pretent are, to slimulate the production of winter mills

53511. Do you think that, unless people are educated to the full value of milk, you will get any large moresse in the damasd for milk?—No. 53812. Because in my own particular district I sup-ply milk to anybody who needs it at that price—id. a pinth-and the people take extraordinarily little milk?— Tes.

\$0013. I mean a pint to a quart for a family of five is quite a usual thing per day?—Yea.

is quite a usual bling per day?—Yes.

1901at Theories I dust think: it is leaves they

1901at Theories I dust think: it is leaves they

1901at Theories I dust think: it is leaves to the

1900at The think; using the not realise the full value,

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bridges. St Steware Workscure.—As to the po-sticity of especiasg milk clubs among laborare, either directly or by the L.A.O.S., or the United Irish, women, how our these amountains keep in teach with farmers?—I do not think there is very much difficulty above that. The farmers who are members

with farmers.—I do not think them in very motor difficulty above that. The farmers who are member of these societies, in the first metapot, world form the control of the societies of the societies have a certain amount of milk at humbly these people hour a certain amount of milk at humbly these people hour thet, not some of them keep a certain amount of milk them, even in the farmer' houses, and for their houses, we distillated was harded in an expension of histories. manyust. In consumery districts?—Yes. In the other districts, where they keep the whole of the milk st home, there is a more plentikal supply for the family, and, if he is generous, races to give his labournes. 33117. There is, but we have evidence that the milk

kept at home went to domestic butter making? _ Y 3315. That is not in secondry districts _ Yes 33338. What is now in economy distribus --zes.
50519. Have the Unified Inshwessen's expeniations
extended over much of the country N-Thay are
making baselway now. Thay structed several of these
milk supply societies, and I think that they have
suffer supply societies or that its almost one of the
mode on their minds now that its almost one of the made up their minds now uses to a miner one or most important though they can do; and whenever theoretical that the people are anxious to get a supply of milk they send that organizar down to try to form them into an association, in two ways. One way is to they send their organiser down to tay to been them this to association, in tow ways. One may is to have a depot such as Borria, Cooleys where they dis-tribute mile from a little stopy or boxes to which it is such in. Another plan they have those in county Karry, which series to be working satisfactority. They contract with a forecer, who is a narried mass

Peter Melle ergel to be weller antideriors of the control of the c

difference?—An association cognitive to any any of the selfation of the se very well make a contract with a man; there must be a society, or union, or some kind of club, to contract ith him. 80824. Mr. O'Banter.—When you say he delivers the milk, he delivers to the depot?-- No, nor actually to the

rotts, no deferent to the object—doe, nor actually to the bounce; but along orein round, at certain places on these reads; all the people come there and mult fer it at certain bours, he can going prily securably the quantitie of milk retained.

TOMM: They ready would take him very listle more Court. They arely would take him very listle more would also confing to the creamery!—I do not think; it would be confing to the creamery.

20225. It is a long precess auxiling to the creamary?

—Yes, because you have to wait for your separated milk—wait for your turn at any rate. He is quite satisfied to keep a horse on the mod, doing this house on the helm made very wall.

anybody in that business.

humanest; be the instea very well. So COCCT-9. Here you found that it has examel 2000CT-9. Here you found that it has expel fection with the small stophespers who have been, perhaps, selling malk; very often you find in a village access shortpespers who keep three or four overs in the village, access shortpespers who keep three or four overs in the village, access short was not come across that yet, per which you will not not consider the perhaps which we have been access into competition with the control of th

Mr. B. A. Amsenson,-Ond Gotober, 2022. \$6000. It did not buppen in this case?-Not in

As for as I understand it must have happened SUSSI. Lady Evenano.—At Name Ledy Mayo and 90001. Ledy Evenann.—At Name Ledy Mayo and two oblar people have installed a depol, and four months ago they were disposing of 60 gallens per day?—New. 200002. They contents with the people to send it in, and they charge 86° and 61. a gallon?—Yes. 900001. They O'Drane,—These a depot is in existence, and it is a torn. The difficulty scally in it the case of rand district, when laboyen' colleges are drived or rand district, when laboyen' colleges are drived

of rarial districts, where labourers' coolings are dotted all ever the place, as most corrected to ferrors ever the control above the cont tractor does not go more than about two miles in every

instein does not a more than above in a mules in every aboution, probably a radius of two unifies from his house. 30000. Left Norman.—Do you how it the fermers—30000. Left Norman.—Do you how it the fermers—50000. Left Norman.—Do you how it the fermers—50000. Left Norman.—Do you how it has period getting but meany—500000. Left Norman.—Do you have it has never the second of the second partial to the second left of the second left to deal with tent wound to to let the depos, or crace, or wholever it is, sell checks at an much a piece at the legizating of the week, to be peal for the week is advance or at the real. At all events, you exchange advence or as the cust. At all evence, you these cheeks, one for every pind of melt. what is done by the St. Vincent do Pau Paul Scalety what he done by the St. Virrent do Faul Scalery, frey had so many sheeks, they give the checks, and he person having the checks gets so much selfic. In Limerick it is the series at the deposit there. 20037. Mr. Winner,—That reduces the trouble of positions on the common of the common since feather positions on the common of the common since feather

It removes nine feaths of the troube of keeping accounts; and manty all had debts?—You have only one account, and that is with 46937—acc are the one security one make — acceptance the confession — accept — for the case of a society?—Yes, in this case.

30397. See Security Woodspread.—The possibility of outside the construction of the construction o memoral by those one a.a.O.o., or the center from wearn can do it. Take the La.O.S. first). You this that they can try farmers; they have machine; first eaking formers to stay?—No. I doe't think it is our job essetty. I think what we would do it to arrange for the

suggly, and help to devising a atheme for distribution to think them might be some other body for organishing the demand. We are in touch with the formers who form the society, but not with the independent of the society. who form the society, but not with the labourers, and that is where the new completeless appears to be wasted. We hope that the United Enthropment, and, not decide, the Wooden Is Normal Results Associations, who crede do a wast amount of useful work by failing or that question for the people as well as the state of the laby. I show't think it matters how many organizations are to the state of the people. help. I stor's think is matters how many organisations are in the field, if they don't compete with each other. The main thing is for them to work safe by side. We The main thing is for tasm to work man by your. We all know a period of the people of one yeeling the hand of getting milk. I am quide size they must get more milk into their bostner for the children.

33340. There is not beported instance, that if there is

2000. There is one imported features, that it there is improvement surrough features—as attempt other proplement to the value of milt, there are labourers with as here and made rather of milk. More than conceive of milk, and said they are sufficient from the executive of milk, and said they are sufficient from the executive of milk, and said they are sufficient from the conceiver would give be remarked. I have not often there would give the execution of the control o restirely beene cut by what we brand, is conically been can by what we haved. The only propose far which while mills or pures mills, in only used in is become "edeer" the ion, as they can be used in is become "edeer" the ion, as they can be any mills far very young, but yo not seen to any mills far they mills at all. Of course, they mills for mills end butterful at all. Of course, they have seen mills end butterful at all of course, they have seen mills end butterful at all constraints get if the machine, and day use that.

33544. Mr. O'Briting—Too Bread making—Too.

33544. Mr. O'Briting—Too is not a clubest in

30341. Mr. Wilson, Thurs is not a district in polar district in the said where we have not had that statement—north to seath—Tes. I remainly conce—to may be hardly relavant, but it shows that Irritand is not peculiar—I was away up the Therece in a steam launch, almost an

high as you could go. It was a country assuming with cowe of all hinds, and we told to get some mall, and the only thing we could get was half a tim of occ-danced raffs from a lock-looper who had a house full of cirithren.

35513. That milk, I suppose, went to London 1—Yee,
very likely, or went, perhaps, to one of the big factories
in the neglibration.

20042. Br., O'Burton—Bristol 9—Glemoster, very

Histy, I should think, to some of the overnorms, litrly, I hadd shift, to some of the avenuesies. You were asking as about a water supply. Some of the seven asking as about a water supply. Some of the scaling milk to London. They protected it is the scaling milk to London. They protected it is the scaling milk to London. They protected it is the scaling way will. South Tipportry, and down the Start, three many large and the scale of the sca

30346. Fifteen to righteen house?—I should may so. 80347. Sr Surwait Woodmona.—The peakerine. tien would emble it to arrive in that time in excellent quality?—I'en. There have been no complicate so far as we can make out. In the exemuerics where they have got a chilling opposition they investably chill the mile, and generally make it as odd as they can after The pesterminies, before smaller out, so they can after the pesterminies, before smaller out, 39348. The chilling in the very sensible part of the pastermination?—They can drawn shill for initer down to 60 dayres; but they cannot get it down to 60 castly.

one organization many extensive per it destricts of 60 conflict.

35040. It is the more period form to chill it terror,
that is homeolishly rifer million, before it is east to
a consumery at all, and then after the pestermanical—
Posteally, if they keep it absolutely often, and chill it
innecolishly after million; it would not have to be pasterneed. O'Benny.—Do you happen to knew 50500 Mr. O'Benny.—Do you happen to knew whether they pastercine in Deemark, where they have that very fine - coality of rolls, and where they actually still the cose into the co-chilled palls?—No, not for home consumption at all.

Sect. Do you know how long that would keep!-I never boost, but I imagine certainly twenty-door hours. Wr. Corrects.—Ch. yes.

Mr. Corrects.—Ch. yes.

30392. Mr. O'Bours.—That, I should imagine, in cells costly?—Their system at Cepenhagen is the

st in the worse. \$5000, Mr. Campund.—That one system?—That one. should think no.

shored care no.

\$10000. Only possible because they can get a great
deal of ice. We pusher from the orizings on the
matter than every former there collects ine in the winter?-They used to do that out there, and I am sure they utilize the ite yes. Now they are giving it were they ciling use you yet. Now they are giving it up. It was a greet principle, and not as good as these chilling plant, and when these creameries have chilling plant they don't hother with les.

chilling plant they don't hother will ite.

50527. You must have the to to done particular

50527. You must have the to to done particular

50527. You must have the probably an profuce
their tas o charge that they probably an profuce
data of shortage. It is a read to write indepen
tion have a great squantity of fen adversar and to care it
is allowed as much as the cost of making it. 55008. Sty Strevaty Worksons,-I soo, under your 55000. So RENVAIR WOOMSON-I see, under your blind heating, your order to the morbide of accounting the boot cells supply in correctors, for example, Bere-rel Schuler, where the consumer seriors in En-phase of Englands, where the consumer seriors in En-ternative Consumer Schuler, and the Consumer in in respective for that suggestions on artist Mr. William in a consumer in the consumer in the consumer in the properties for the suggestion of the consumer. As the sa-tistic serior information to the Committee. As the sa-tistic serior in the consumer is the consumer of the consumer in the consumer of the consumer of the con-traction of the con-t

I can make out, from wast correspondence a nave made in letters from people there, they bell can there is no expansed system of supplying that the people and all the milk they want, that they don't saw to surfac-tion any navely of neith; and it has not been nown sary to organize a special system of milk supply in wast, liketical.

SORTO, Mr. O'RENES .-- They do that out on the Con-Stone, Mr. O'BEREL-TREY do that one on the Con-linent, so I gather from Professor Rend, with when I was talking, in his part of Germany; the milk is all send away to the critics, all the farmers do that?—In Sens away to the crues, as the senters to many to Denimark, too, the Danish Senner lives very comocesi-cally. His children look healthy enough, but he does cally. His custren took beauty enough, but an not use much milk, and uses hardly any builer, uses margarine, and safe his builter.

2000). Sir Senwur Weconomus.—In these com-nise, superhilly Demant and Belgium, and other takelypopulated scentries, the difficulty of intenturing is not so great to nith util—No. In Demanth, as for all one meter out, the distribution of nith is under-taken sittopather by the local co-operation atoms. There are imprired and branches of these stores in There are influence that insurement of these source years December; shape where they sell ordinary decositie rancasteries. There are bardly any of them in the nown; they are not needed; but in the country districts, instead of ceillinary little harder shops, there are constructive atores, and if there is milk distribution is is all done through them, and to some one man will by himself out to sell milk for his neighbours; her, ay mesew out to our man for an anglibours; left, as a rele, there is ste special organization for it. In Belgium, of source, you have got a terromotors terroming population of redustrial people which makes it

simple.

5001. A considerable difference?—I gather, too, tyan prformation from Belgium, that milk is not used gas proximation from Edigram, that mak is not used, saily to the extent it ought to be. 33992. Mr. O'Bazzr.—There are quite big districts France where it would be very deficult to get mile? -The difficulty about applying the or-operative principle to mulk is considerable, because the sale of 40 or 80 ce even 100 gelions a day at 8d. would not pravide you with sufficient margin to make the working expenses of a co-operative nomety; it would have to be a society constituing cles. For the self of milk as its main besiness, you oved not seart co-operative seru-tive; but them you could not seart so-operative socie-ties; but them you could not the arising societies wherever they were as the mails for distriction, but I do not think it would pay to stort new societies. would be rather an unnecessary multiplication, a rother expensive from of enganisation. As making management of the control of the contro

stribution could nover meet that.

Nos say that in some of these places where SEES. You say that in some of thissi pieces where the milk is distributed through the means of the society there are co-operative stores—Yes. 30354. There are a few on operative stores in Ireland, I think; one or two in districts where they see quite spart from towns?-Yes.

part from townsy-xes.

30965. In these cases do they sell milk, say, at carbardstown?—At Lombardstown. I don't think 30505. In not that some way from any town?--- Six 30567. It is a co-operative store?-Dealing with

domestic requirements.

60098. To people who would not be able to got them
observies? Yes. Tasy are not relies from Mallow;
twenty miles from Cork. There is a little willage up
the meanthin, free miles own. It is persiscally in the heart of the economy.

4006. You don't hopped to know if they have taken
by the question of selling milk?—I don't think they
have. I am sure they would take it up.

80070. Because that is a crossory district as well?

—Yes.

GOTH. These is a large surply of milk about there; at all events, on one side of 87—Yes. I don't their set and there is made, nooth these; because there are a great many of the set mers thoughout the eventry which would malieste against their sillingness to sell selfs, we found that fa-mers were not willing to sell selfs even if they could get \$4, a gallon for it, because by sonding it all to the cremery they resirved a hig shaqes at the cod of the moth; and, somethly, they avoided but default. It street some of on that these was a feeling which they did not, because at least the contract of the street some of our that these was a feeling which they did not be a partial of the contract of the con they received a his change at the cod of the

self is be in shreid of being tricked by the people buy-ing the milk, or of being mabled by the cartier. If you substitute a system of theoles or telests to do sermy with the possibility of that, of bad debts and people, then, I heldere than all the fargare has got to do is to measure out so many gillone each measure use got 30 30 10 to men, send this resund, offining as many pints as it reasonable for a certain number of gillone) ire soch gillon ha gits so many the class of the continue of the to allow for that.

to eller for team.

SiGNR. In mome cases it would corve in country dis-tricts if the former sold at his own house—to a child who would come with the vesself—Thubshy the far-mer's wife would lock after it, and take sharpe of the book-hopping. The men I mantioud in Kerry in a small man; he occupies forty sures of land, with twalve or man; so occupies norty agree of same, with tware or aftern cowe; but still he in probably a man who is not minraed to work, or turn has head to snything. You and get as many of these men as you ought to now.
3007 a Professor Mirraw.—He comm within the
select and Cosylpcia Order?—He comm in anyway. for he supplied milk to a creamary.

\$0075. He supplied to customers!—Yes: there is a

SEON. He implied to continued.—Yes: there is a male there, a purveying of malic within the measure of the Art. That, of course, is a great griswance, be-comes furname don't say that they coght not to be in-spected, but they don't Him it; and what they object to is being singled out for imagencian when the men who make the butter at home, myway they plasse, go

who takes the cursor is assess, your could be universal, and 2000cs. Two thinks the Order should be universal, and should be applied to very locify—It to ought to be, and I recall reades the police enforce must be possible to be, and 2000cs. And where the rows are kept for demonstate uses a contract of the police of the policy of the po there, and they ought so he under supersment, a thrule the Order as it stands is a hardship to the peothrus the Order as it stands is a hardship to the peo-grossive people, who have started creaments, and see uyang to do their best to improve the butter industry, and it is really a great stands to let them other

\$1008. It is a hardship, because net universally ap-plied?—Yes. None of the furnees groundle at it. They say it is all right if it only applied all record, but it does not. The furner who noises better at home is except from the operation of the Order. When he strengt men ins operation of the Order. When he supplies mills to a creamery be comes under it. Meth. Left Everatio.—It is only the case where the Order is in active operation, which I am sorry to say in many parts is quite a final latter?—Quite so, The Local Government Board have shrapy told us inst they meant to coforce the Order, and they mean to somes! those bodies who won't do so to put it into sompal those tooms who won't do so be put it mes force by means of an application to the King's Banch. 3039). That was done in one case to Kingillock. In other once the Local Government Board have not done se. I believe it is in contemplation to onlows it, so

that there wen't be any shirting. SERRI. We have had evidence, North, South, and West; we found the Order is only a dead in many pieces. I am locking here at some avidence.
One witcom and that it would be an entremous advan-One whiches must time to would us no commons agrain-lage if the Order were in active operation in his dis-trict, because they have no generates of the parity of the local ampely to the commency. that is a very serious things—Hes. In some cases where the Order has

thing—Yes. In some ones where the Order has been enforced—for histories, County Antenne—il has had been enforced—for histories, County Antenne—il has had been enforced—for his enging to some remaining. The largers have gone end of the besiness. They said the second affect to put up these new combate had been assured to the second affect to put up these new combate had been assured to the second affect to be second affect to put up the second affect to the second affe and they are onerous, would make a countery business 30332. Den't you think the Board of Worke would

ive small sums on loan-410 to 414-to small men !think that they would not be everse from doing that. I timit that they would not be evenue from doing that, 20085, They won't give less than \$559.—That is so, 20084. Mr. O'Buzze.—Don't you think that would be better done by a co-operative bank or credit society?

e better some my a weep-L don't think so. 50086. Beerowing that small sum?—No; we would be allogather against that; because a co-operating Mr. R. A. ANDRECK.—And Ostober, 1912

scottly in designed to learn money for abort periods
and to determ for those advances personal security.

For home the property of the Board of Works could see their way be singlifyed to precedent processor; and the Board of Works could see their way be singlifyed to precedent necessary, above the processor in the processor of the coats; and, bonder, I understand his Board of this coats; and, bonder, I understand his Board of this coats; and, bonder, I understand his Board of this coats; and, bonder, I understand his Board of this coats and the board of the property to children as direct on the size of the processor of the processo

South a meet a carm that a general extra were did so to Summer Licht think the formations were did \$1987. Lary Eventure... You don't kink it would \$1987. Lary Eventure... You don't kink it would be an advantage if all the population of milk were inought under the Delines Over: for materiae, briter, sidem milk, and crease haing edding do be registered?— I would certainly units in. I don't use any pushes or extensioners for having any profiled system of inspeccessmontaments for having any profiled system of inspec-

I would certainly tains no. I don't see any pushes or continuousme for hurring any partial system of inspection.

3038. Mr. Wilson.—In singling out one section of the trade 1—It no clearly clear highlighten of a very ball

The control of the co

one of all, it must be amongs assumed as the presence of the presence of the late of the l

could not be reconstituted as a type matter and a second and a proper vision of permittal growth at the second as a proper vision of permittal growth as another vision; at the second arise, the second as a seco

Office American So maring was compay; the mast woods be egithe amily dence.

30304. Mr. Witzson.—Have many solvail experiments been made in this country in the societies of the I.A.O.S. in the selfing of milk by the co-sprenitive selects? I believe in the town of Lishum, they have been thinking of 187—1 don't think they have hagen. They may have been thicking of it.

Solvest. Nothing has been around your special conposition and what you and arrived your special post state has what you and necessary to option to be a superior of the special control of the selection of the special post of the special post of the selection of your warm season for the presence of the special post of the control of the special post of the special post of the control of the special post of the special post of the special post of the special post of the special control of the special post of the special post of the large special post of the special special post of the special post of the special post of the special special post of the special post of the special special post of the special special special post of the special post of the special special post of the special post of the special post of the special special post of the special post of the special post of the special special post of the special post of the special post of the special special post of the special post of the special post of the special special post of the spe

making centencia by deputing some one present to make, to stry hits, a entired one handle the estimation; 20090. It can speaking of where there is no other ones; a speaking of where there is no other only corporate association at all. You simply wast a size of the contract of the contr

formeds fration between the farmer and his laborrees?—Yes,

30000. And it seemed to me that possibly if the
farmers in many places were facereting enough, of
share own free will, to sleep with such a solvine as
we are dealing with, it might tend.—2—16 would
help to keep the peace.

va die solding with, it ingelt total————— word 20040. To boop his passe—————, is vorable. 20040. Dr. Moccamus.——Who exattoly the Trades 20040. Dr. Moccamus.——Who exattoly the Trades 15m D'Dironne. this allow a groot interest, mil I failst 15m D'Dironne. the sides a groot interest, mil I failst 15m D'Dironne. The sides a groot interest, mil I failst 15m Dironne. The sides a groot interest, mil I failst 15m Dironne. The sides a groot interest 15m Dironne. The sides of the sides of the sides complished 20040. Arm thry satisfied that the simple complished 20040. Arm thry satisfied 20040. Arm thry satisfi

with the Datries and Coverhells Order soccurs are neptly—1 do not leave whether do Order is endorsed there or not. The contractor had been practically a suffer to the commercy. If he was, he would be under the Order satis, providing the contract to accurs a pursupply—1 does the third factor is any surresponser for it. 2007. They have no take change as to the parity of its—Lord tituly discussed the order of the contraction.

of Hr-Tost tot, of course, that will be a difforcity in stry case.

30400. In the malk subjected to may process at all, any pretrustation?—No.

30400. Perfectly raw milk?—No.

30400. Do you know if walk is perfectly clean, and

2001). Do you know it suit is parkedly claus, and surply is parked with a first parked by the surple of the surple is parked with the surple of the surple of the surple is parked by the surple of surple of the surple of the surple of the surple of surple of the surple of the surple of the surple of surple of the surple of the surple of the surple of the parked of the surple of

not part of the creamery weggly at all.

3942. Is any perion suspension?—Bost in that
sum. If was only when milk was received overy other
day it was considered accessary to pasternine: where it
would be leafly for farty-state heree.

3043. If they removed it equat, end hops in dozo, if
was already quite and. If wentered real farther and

are knowledged and if produced under finding or configurational and creation is would be bester than configurational after the problems of milk the problems of milk the problems of the probl

SOLIS. I finite is in a question whether you will be all to induce a man to supply from howe to bese, in the Trince man, and to have the rane stiply you to the transport of the transport of the transport SOLIS. It is a difficult problem to will be able parts of frainais. I blink—it may be but I thin you go to the transport of the transport of the 3047. Principles Married to the principle in the state of the transport of the transport of the parts of the transport of the transport of the state of the transport of the transport of the state of the transport of the transport of the state of the transport of the state of the transport of the transport of the transport of the s

position. Protect people illarly to do its, you can be present the protection of the

sleecks to them, you could do it. But if you see selling the critic to earth, low are you to the not it you are strang, the critic for earth, how are you to charge more than a pariny a pan? You can't charge a pump, darbing, but what you could do is, you could sell a dease tuckets for districted punce, and cover your expenditure

in this way. O'Beans .—The committee pays?—Yes. 50430. Mr. O'Beans .—The committee pays?—Yes. 50411. He formware Womenscha-, in welching the cities, if the many the country of the countr and long to whom it is delivered, and charge a little more to the person to whom it was delivered. In that way you might got

over the difficulty 50422, Mr. O'BREEN.-The difficulty was for bady to see that the milk was measured correctly; it north seem difficult to limit the measurement to the worlds seem difficult to Built the measurement to the precise assumed. In the Biggoong is a size because to exceed a size of the size of the size of the size of or filter, and a friend of bur's conce and woulk a grack. or filter, and a friend of bur's conce and woulk a grack of the size of the size of the size of the size of the topological size of the filter Table is really the eigenfunction. In not no reads that they one sixed of these continues they are size of the size of the size of the size of the 30,323, 347, Winneys,—Bureau at the behinds of this

problem there seem to be the two chief factors-the proceeds three seems to us the two court hardens—the question of distribution, and ignorence of the food value of milk. We have comes secons came there after Eggs. I library, for instance, will soud in his suffi to a createry, and feed his children on ten coloured with separated milk. If you question him, be will probably smoves: "I want the meany for the milk. I did not experted with. If you question brins, he will probably success: "I want the meany for the mails. I did not have three was much wither in mails." "In the spourmer more than greed, because the people see kind except to their differences for as they know how to be; if is

simply stopidity.

Listy Everans.—They do not realise that 6d, spont on milk is more valuable than 6d, spont on other on mile or user.

300 Mile or user.

300 Mile (No. O'Binne.—Ooing lack to the question of lack). In cross of the reconstruction of malk; in roots of the reconstruction plane, whose everything consoled odth it in pretain. They are there is notifiated with a pretain. They are there is no confidence supply of mile possing through the behave; no confidence supply of mile possing through the behavior of the mile of the confidence of the mile of the confidence of the mile of the confidence. This collection. It is expected to the confidence of the confidence. This collection.

3047. Can the plant this they have at present less to condified as to keep the milk geing round and record above best for twenty minister?—No.
30438. They would have to have new plant?—They could use their Starter plant apparatus for that 30229. Where they have pasteurised, do you mana? No: it is a suggestion made to us. Here is what it

30/29. Where they have passistation, do you man?

Not; it is a suggestion under to var. Here is what it
is. "To course for the requirements of a milk dyeo,"
to legge plant would be needed; in face, the presum states properting plants would do were rootly, and course of the properties a small table to had, any, theirly stay only require a small table to had, any, theirly stay only require a small table to need the roll the late of the properties and the properties of the course, to the Landon Type, White was meaning free of two men; to the Landon Type, White was meaning the of two men; to to fall very. We are sending two is our men to London Dairy Show who have here instructed to

See Lenden Dairy Slow who have been instructed to make special legalities into the measurer optigeness for the executation of the two supply the public. 30450. Here you goes less the quantum at all show the use of separated wilk as food?—No, except I think the use of separated with as food?—No, except I think in might be used very much more largely than it is with econoliderate advantage, if it is repeated cells the use of separated will as food?—No, except 1 may be used very more more largely than it is with considerable udvariage, if it is separated with that has been proporty considerable udvariage. If 19943. The reases I sak you that it, we have been consumption agreement mile was used for human consumption agreement mile was used for human consumption. In many cases—cot, I am glad that as a rule 5 is not. In many cases—cot, I am glad that are many consumptions of the consumption of the con-traction.

this as a rule 5; it not. In many cases—toot, I am glad to any, co-persive occuments—them is a vary great propagate against it. It appeared to not that often to could get for the none grown oldificen very chargity from the creamery districts a supply of despited milit that could help it out ocall in the expensed milit that could help it out ocall in the country of which is raised to a considerable temperature which is not enough to pasteurise it quite sufficiently to eliminate all of the evil person that there may be in it, and I was wondering whether a large farmer, my a man with forty or fifty cows, if he separated his own milk,

wait for the three or four hours before he gets it tack? —A large farmer; you mean a men large enough to make his creeze into hottes binnel? 20492 No. What I want to got at is this; if he sells oreum to them—to the even-ery—that even-ery becomes a factory!—I think it would.

Mr. R. A. ANDERSON.-- 2n

amounted the same deminion will apply to in amounting an applies to a certified occurrence, 36484. The creamery bus to make hutter from carean squarated by pover?—I despit the precision defination. 36483. Hr. CAMPRILL.—That is not law at greated?

-Not yet.
1018f. Mr. O'Berrot.—But I think that is one of the
things we have precitedly all agreed about?—I don't it would be wise to suggest that there should be think it would be wise to suggest that there should be any departure from that definition of a orannery, heating you would never know where to stop, 50.977. This secure for not be in some cases rather the objection. For my own part, it have manifunery and sand in a consistary; I have fifty to starty seem militing, it would may me much latter really either to self the custom or in rathe further, and the departure my

set the cusum of to finite active, that to separate my utils and wall the separated milk. It would be a great advantage to the people about. I think a great many more would drink separated milk if they got it. I could afferd to self it very cheap, and they don't really buy consight mails?—4k depends a good deal on what you want the separated milk for. I have an idea the crysmerics might do a coaring trade with separated milk for horse-making if they would try. It would milk for head-moding if they would tay. It would be periodily possible where they pasteurise, because they could introduce a little pare callium into the some wife, and make it splendid for broad-making. Fun of the us and properties of the character of the mile, and a good deal of water was often mided to it; and enother thing in that the openings, proprietors in the early days un-to theren id. a gallon for the separated milk. O

course, the more gullens they could make out of 100 widor. Dr. McGGHLAD.—You probably pasteurise the separated utilit because it goes verous supplier; if they interluded instead of pasteurising tim-belled per second it at high temperature—it would keep longer?—Yes DMPP. And J. Bellow, as the present mecans in Dreasting which there are doing it to satellite the work that it. They can tool sugar after?—I does not that it. sy that is no. D0440. I think milk of that mature would keep longer

and control of the co

with milk out of the contents of the receiving was.

Doubt. And shredy heated "New Till in raised to
Doubt. And shredy heated "New Till in raised to
Doubt. And shredy heated "New Till in raised to
Southern the posess into the centrismes." —These
Southern Till Indian the Content of the Southern Till Indian
Southern Till Indian Till Indian
Conspicuous Southern Till Indian Till Indian
Victoria Rike Bandas, new Till pereyr, see
Mary Crassories Rike Bandas, new Till Indian
Southern Till Indian Till Indian
Southern Till Indian Till Indian
Southern Till In

creameries that don't separate every day to the wister receive milk from their employers and keep it 5—Yes. ovald distribute is quite fresh, and without having to

Mr. R. A. Annusco, .- Sed Orlober, 1919.

30449. Because very often a small may hee no place to keep mille?-Quite up. 50420. So that, though you may have in the creamery districts a large number of treameries apparently only working these days or even, during the winter mostless pechaps twe days, they very often would be able to give out a dealy supply?—I think that is quite likely. I have a revend overknow saveral erconstrict where that is the case. 30451. The enly difficulty there would be the euro-

d some small reconsension, and the smelinery? -Well, just give enough to keep going during the 20452. I found that the other day when it was n esse of separating, changing from separating twice a day to once a day?—That was a very big creamery. 30453. The manager wombod to get off receiving milk sound the manager wanton to get out receiving many in the evening, and we had to insist on it. Some of on who had a large evenyly could not possibly keep all the milk we had?—If it edds, undoubtedly, a conmderable exacust of treateo is necessary to pay him a little more.

25-65. At his power is would pay a gent deel better than better, bowers light in goar Tee.

26-65. Dr. Moreszain.—It comes to this, working which read summer. It is a question of demand?—

hat is so. 80458. If you sould educate the demand you could

Professor James Printeger Charg, M.B.C.V.S., exemined.

80480. Str. Str.wary Woodmonte.-You have been 80480. Str STEWART WOODSTONE.—100 sever book good smoogh to come here to tall us what you have chairved in December, I understand you would to see the method of receiving the milk at the cremmanies, and the meak of leastment there. Did you wish the method of receiving the smill of tim communica-and the mode of instanton there. Daily our visit the folloy farms charmed every "I visited a chiry form the simulation of the bar for time which received the simulation of the bar for the same explicit milk in both a form—a village via far more called Tabletium, which is a factory in Hashes of the 1004. That is not a form—a village via far more over two builded cover, and most of the over wave at the cover two builded cover, and most of the over wave at a third that the property of the cover wave at the same that the village via far more than the village via far more at the view of the cover wave at the cover wave at the same that the village via far and the village via far and the same that the village via far and the village via far and the view of the village via far and the village via far and the view of the village via far and via far and via far and via far and via the view of the v prise when I was born. About interfy of them were as the byre, to that I saw the condition of the byre as in termily would be, summer or winter. The plotts, of comes, which I particularly loads for wire points from a velocitary supect. I noticed, however, in the condition of the property of the condition of the condition of the condition of the prevent are admitted from you with it has been found to prevent any additional from you want, that the hard four the tails had been objected in; and the hair of the faulth had been objected in; and the hair of the faulth had been objected in; and the hair of the faulth had been objected in; and the hair of the faulth had been objected in; but the sum of the faulth had been objected in; but the sum of the faulth had been objected in to the object of the object of

droppings from becoming nanown, so one sum or one still, and so passing into the rath, 50462. And then that would be more manly recoved if such had been the case. —In addition—it had been hands use going sound grounding the unimals by using a curry-comb and a dry breach on the hind quarters. 20403. Did that not raise a dust?-But that was about an hour hefure they proceeded to milk the cown. Stocks. About what hour did thoy milk the cown?— In this particular from the fremer told me they milked them there there a day, and that they had a hegyr quantity of selfs than if they only milked them brice & day,

80485. One militing would be very early in the merchings—One was very early in the morning, about three a.m., I think; mether about noon; and another In the evening about half past fee.

50.488. After million, was the milk sant three since
a day to the depost—the, no. The avening work
was sometimes, kept over thi morning, or the midday's
milk kept writh evening. In all cases the milk was
covered immediately after its was intro.

10 and the milk which may mee it cooled?—The extragramm's

was raid in which even your it was cooled over a see evening about half past five of metal dreen. Into the dreen was passed cold water which was sprayed over the inner surface of the dreen.

The milk was porred on the top through a musits cloth, so as to remove as much sediment as possible. and then it trickled gradually over the outer surface and then it reaction graceastly over the order surrace of the dram, and was carried to the bottom on to a chemnel and then pessed into the milk receptables. 30466. Arcural the dram, which was couled by 33466, Arcend the dram, which was cooled by the constant flow of water?—Yes; the apparatus the constant frow of water-West the Opposition was an althoroto cas in this case, because they had to pump up the water from a way hig well, and that to pump up the water from a way hig well, and that that had for the purpose. Very cold value was that had for the purpose. Yery cold value was purposed to the pump of the from this reservoir in passed into the interfer of the from the pump of the passed into the interfer of the pump of the pump of the passed into the interfer of the pump of the pump of the pump of the passed into the interfer of the pump rather a good plan, because the outside of the dram could easily be shared

204004. To what temperature was it cooled down?-

50170. Semothing over 40 degrees Fahr.?--Yes. \$0472. This cooking superston was in a special roose? -Yos, free from dust. 30472. And often —Yes, free from dust. 39472. And afterwards?—Then the milk was put into case which were immored in cold water, and, I think loop immersed, until they were removed to the factory. 33478. What kind of easer-Yory similar to the cens used in this country

30474. Was there onything special shout the came into which the cown were sullive?-No, they are much no wante as in this rountry. 20475. Did they carry out the rogalations we carr out, or see supposed to early out, such as washing th hands of milkers before the process begins?-I htolis of militime before the process begins?—I did not soo these adering operations, but pervision so the operation I know that they with their hands. All the militers is this case, as for set founds so, were reconstructed to the very object and the process of a second of the process of them was until inviting, as a second of the process of the No, save a shame process opened above to militing?— No, save a shame process opened above to the pro-tent of the process of the process of the process of the state. As we have set to the hard to the process of the pro-

No, save a clean spreen overail. The make was some twice a day by east to this factory in Handaw, about two miles rows.

20017. Which happened is the factory?—In the fac-tory solitaces was removed by separators, and the milk was heated or pastorated to a temperature of 80

was heated or pasteriance to a Memperature c, and depress Certification, and the second section of the second section of the second section. Then it was put into a room, which was kept at a special beneparature, and excited the purpose of tending latter; job series of the milit was rotatine out of section for the series of the section

it was name or constronar. 36450. Was that milk treated in may particular way before being send by union to Copenhagen?—It way kept ceel in vory odd meter. keep the tecoperators down while it was in the train?

-No; no far as I am awars. They don't use ice in this particular place.

Sold? Was this mile seat from the creamery, not by

the former?-Not by the farmer.
10483. Consequently it was what one might call nick that is to say from different suppliers?-

10094. Did they send a steted questity every day, what was left over?—I think a stated quantity. 2083. They have probably a stated quantity 20:85. They have probably a stated number of customers who recurso a stated quantity of milk-ture of the control of the particular factory It was offer the than. In this particular factory they were mixture butter and sharm, and hance it would not make a small if they had more milk then they had anticipated.

20083. Because they could use it up?—Yes; but there were certain conditions imposed upon the farmers. Scene of the farmers had there in this perticular Seems of the ferrours had there in this perticular fractory of company, and the conditions were that if the milk was found to be dirty tha farmer was not at of it, and there is not to be in the milk was reduced. Another point with reference to it is that all the farms were trequently inspected by a veterinarian. They were imported every month to see that the cows were free \$5687. Or for udilor affections?-Yes, the sent rone for making inspection so increasily was on account of

50439. They carried out surprise vinte?—Yes, 50439. What was the breed of entite?—A native 20490. Are they equally good for heef?-No, they are good for mails, both us requests quantity and over

config.

30(9). What would be the precentage of batter
165 - Well, I could not give you the cause percentage,
but I think in a good many cases 5 per cent.
2013. Do. Houseman. - What was alone to the spreaded selft before it was distributed to the far-marsh. The separated rails was all strethed.

mars 1—The sequented rath was all stephend.
39,500. What were was made of this multi-—In this
paytential form they had page.
36,640. You don't know whether any separated milk
up, add for human use or not 1—I could not say,
up, in this footing I was told that the milk
up and book to the human. Another point they doll
not say, and the said the milk country is to the said to be not to the human and book to the human.

Another point they do not not be not been all the milk tought were shoped to be not death and the milk the milk they had been as death and the milk the milk the milk they had been as the said the milk the milk they had been as the said the milk they had been as the said the milk they had been as the said they are the said they are they ar way high temperature before they were sent back to by fight compensate turns tarry were same to be firmer. Space. Sie Symmany Washington ... Do wer buch prise charged to customers in the form II—I could not bell you. I think it came to very nearly the same as here. Mife was sold by the libra, not a plant, and from what I could calculate the price was very smaller.

So elso with the better; butter was sold 50405. On that faces do they grow their winter oreas for the winter feeding, or buy them?—They grow a large properties of the materials that would be used for feeding the cattle.

R0407, What would they feed them on principally? many. What would hay feel them on printipally-flexingly case, turnings, wearies, romapids. Anather point in connection with the factory which consured to see was that they regulated the first of the secon to a certain cuttort. They would instruct the farmers who said in milk as to any change accessary in the feding for instruct, if they found that is affected the better they could be the first than the contract of the connection that they were giving

55458. Do they send the mile they distribute in bottlest-Etc, in case, very much as it is here. So fay bettlest-Be, in case, very must as it is save. In its growing cape is consecued, what struck me is passing through the country in Denney's was the large passing through the country in Dempios was the large proportion of lead that was californial. It was only a few fields here and there that were left for graning purposes. The lead in Suthard is very poor—bog lead— but the farmers seem to be making the racet of their

out the number seem to be making the raths of there inch. For it is very interesting to notice the sattle on the hard. They are tathered, and as they eat up the graw they are passed a little further along on to fresh graw, and so on until they get the whole field mosen green, and so on until they got the where been means forms and they can proceed again.

30402. That, of occurse, accounts a good deal of super-vision on the part of the owner of the attile, that he does not keep them too long in the one place, and the the cow is in no danger of griting starred — They know their business is frenching, and they went to make the tons of their cattle and the land. The cattle are scensiomed to being tethered from their yeath upwayls. **CONSISTED TO THE PROPERTY OF THE PROPERTY agen was the first to make an attroopt to crafficate tabererious form the beris, and great advances have \$0001. Do not know if the Government help in that

With us a cow with a telecoulous o'Mer is destroved. while in a cow with a teleconomic indice is desired at and the owner gets compensation; is there any similar provision?—It is not colle similar. The crefs collect in given to choosenge this criticalize of the directo. For changle, telecoraliz, is given free, and a certain rate given for veterinary inspection, and so on, 3002. Does the returning surgeon inspect every meeting—A periodical immodels in made by a veterby nurgeon paid by pertain associations or societies.

this inspection is made at a special rate; it is to the

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In were apparated by the Creams Governments—with, I suppose the owner does not like to find it.

50505. But if he finds it, it is les interest to get rid
of the hearth—th, yes.

50506. Profesor Mittram.—Beskins, I presume, they world have a hold over him by refusing to admit his null in the creamery unless he acted under the velet-nary surgeon's instructions?—That is the whole point

of the temperature.

3807. Does the framer pay saything to the society which employs the veteriousy surgeon for the use of the voteriousy surgeon but he witeriousy surgeon?—I do not know definitely. nor wesermany sungeres real on use amow definitely. It thinks the chief point in that the somety gets the farmer's milk at a certain rule.

shifti for these powerful raid; and or certain exists, on cursa exists, on the same and the same and the same and the same also they reserved to the telescents rise above they reserved to the telescents rise above tones a classical raid of the same and the same and

had shout twelve crass a year. That is not much by a large dury hearly but they have been earrying out that system in Denomate for a countlenship time. 30000, Dr. Moceanum. This proportion of unberecken udden would be very enable—Lee. 32000, it appears the langestim is very laggely devoted. to the presence of telegraphs response in the olders?— The shalf part of the impection as to detect telegraphon rolders. They also deal with the general health of the gardenia.

20011, Do they consider to Dremerk that M as new is affected by tubercales of the under three is any

owe is effected by unbewedenis of the older there as one precision danger of the male containing tolerated herein's precision of the male containing tolerated herein's they believe the large proposition of cases in whole unberich healfill apoption in the malfit is done to whose criticals of the talker. But there are seen where no large of the talker, but there are seen, usually, of simunoid technically and accounting of the talker, and the talker of the talker talker and the talker talker and the talker and the talker talker and the talker talker and the talker talker and talker talker and the talker and talker and talker and talker talker and talker talker and talker talker and ta becomes of the cettle which are discovered to be tuber culous?—They ultimately reach the shaughter boune. Donnark the herds are inspected, and if passes from one herd to another is would be detected SOUR. There is nothing left but to father the animal?

Could first a second of the case, and shappine.

2014. Do they consume much milk in Beamark, all-shappine.

3014. Do they consume much milk in Beamark, all-shappine.

I milk as of becom. They convert the most of 9 tone. of milk as of bacon. \$3515. Ledy EVERATO.—What is the price of milk in the towns?—If you were to convert it into English mesoure, about 36. a pint. 10016. Bir STRUARY WOODROOM,—Were you impresed with the electrons with which the milk was hand as congressed with whole one is consistencial to in Intrinsit?— The the left shelves in Intrinsic the conditing is as clear. The the left shelves in Intrinsic the conditing is as clear. The the left shelves in Intrinsic the left of the left shelves in the reasers of the Dunish Irrary was striking and to operation. This seemed to me to be

to cause of his sottre success. MMMS, No yee think that the clearliness charred by the large converses premoted enter to the smaller for some risk see composed in slergy operations—I chink to consider the think way. I suppose, their mental former is a charles for the way. I suppose, their mental former is a charles for the way. I see that the constitution of the what I new I think he was. They are trace uni-tiated to the constitution of the constitution of clearliness is well diffused ancong the people in the constitution of the constitution of the collec-tion of the collection of the collection of the collec-tion of the collection of the collection of the collec-tion of the collection of the coll

clean. Books. The Dunish farmer realizes that his own posts depends on the reputation his country has got for the cleanliness of her postnoist—Quite so; be understood his interest in the interest of the companies to which is scaling his milk. 602]. Dr. Moonrad.—Were the cows of all the meers who supplied milk to this particular ereamers

The Greenianon editornal till the fellowing day.

FIFTY-THIRD DAY,-THURSDAY, 3RD OCTOBER, 1912. The Commission met at No. 5, Upper Castle Yard, Dublin, at 11.30 a.m.

Present:-P. J. O'NEILL, Esq. (Chairman); Lady Evenand; Miss Margarry McNeill; Sir STEWART WOODSCHEE, M.D.; G. A. MOORHEAD, EGG., P.B.C.S.I.; and Professor A. R. MRTTAN. BALL PROFILE

S. W. STRANGE, Esq., Secretary

Dr. Janua W. Bausser, C.M.G., enumired. timalip between rise of temperature and death. It

20022. The CRAMMAN.-I should lifte, Dr. Barroth. on behalf of my collespues and myself, to express our indebtedness and obligations to you for your kindness in attending before the Commission, this morning. We In authority learning was commission this assume as a deeply indiabed to you, and regret exceedingly to interrupt your well esented between, to put your views before us on the question we are impairing into. We are anterently grateful for your kindness in attending.

Dr. Ranners.—It is very kind of you to say so. I am very gloi to be here, and it has not been an om very gled to be here, and it has not been an interruption of my holiday. My visit to Dublin has delightful experience, and has been exceedingly interming.

50033. The CRAIMAN.—We see very glad to hear it. I presume the conditions which prevail in this country are heppy different from those which powell in the "Lead of the Southern Cross," but at the same time. I take it, there would be seen; analogy between the I take it, there would be seice analogy between the questions we including this such the conditions than purvaid in your country. Did not find that the young appreciate the value of milk, and find that it is given country 9—06, yes. The difficulty I beset has your to here yesterly in perticulty root-states that that is the difficulty of indusing people to use call:

30224 Even among the weeking classes, the hum-blest members of the population—Yee. I have never heard positively is problem rathed in Australia. The position in Australia is been to give the people milk which will not tall the children. which will not hill the entition.

3025. Here the public health cutherities in your
country sendined the bayoctunes of this quantities, and
what preceditions have they close to critic to critic to
a pass milk amply?—Would it imply; the master if
a pass milk amply?—Would it imply; the master if
a gree you a hard occorn here by
the property of the pass of the property of the
pass of the pa on the study of statistics was the first public reference on the stury or statistics was the arm putate rearrance. I am acquainted with, in which it is clearly shown that whomever the temperature of the air rises to 65 degrees nome der bally his bedoot with creams, not on oppose the country by the plant his bedoot with the man of durth in the country by the plant has been proved by the plant has been proved by entered by the plant has been proved by the plant has been been been proved by the plant has been plant has been proved by the plant has (mean day bulk) the belies who are not fed on quiry, and showed that it was no; that whether you estimated the figures by the dasthe registered from infratills distribute, or by the estimation from infratills distribute, or by the estimations from infratills distributed in the children's burghts, that the meanant the temperature ross over the mean of 60 degrees inflantile mortality begin. Now, that is resulted every the first of the children's behavior for another than the children of th year in October, and disappears to April; so that from October to April we have the usual appelling but Notice in October, and desopposes as agent, so wast some October to April we have the usual appalling has of oscusalties resulting from the deaths of children, more

was clear that the doubt was on indirect function of high temperature, and since then it has been clearly shown of milk decomposition, which proceeds has when the temperature is over 30 degrees F. Then the problem becomes, as far as children suder two are com-The question was, how to save these firms be done; and a more or less continuous arctition was heps up by the medical profession, with partial success. The success was, however, only pertail success. The success was, however, only pertail until Lad. Talbot, the wife of the then Governor of Victoria interested hereoff. She was appelled when she hasses interested hereoff. She was appelled when also become aware of the elegator, and the public was apoulled also by the constant prescention and conviction of dairy. also by the constant processings and conviction of and seen for adulteration. These grew up gradually, under professional guidance, a public opinion that the adulprominents guarantee, a proposition has our students of the meanant olumniter, but larushed potential marder, and ought to be really regarded as a fairny; it is too gaves an officers to be otherwise contemplated. It has not been death really regarded as a falour; it is too grave an officure to be otherwise contemplated. It has not been death with precisely in that way, but the public constitute his born definitely sessed. Lady Tubble estocialized the views of the whole received preference, who must use the Medical Societies. Wall in Melbourne, and deep mined to be submidd by them as in the best every of which was the contemplated by them as in the best way of which we will be submidded by them as in the best way of which we will be submidded by them as in the best way of which we will be submidded by them as in the best way of which we will be submidded by them as in the best way of which we will be submidded by them as in the best way of which we will be submidded by the submided by the submidded by the submidded by the submidded by the sub mined to be advanted by them as he the best very of spring to work. The professions negatived the establish-ment of a small ideal multi-supply, for advantaged purposes only. If we could use be advantage whole could be done, prospective of commercial considera-tions, we could then used that is a mercan of drawing the attention of the public to rose to make a mercan counts with to would be much for or weather arrange. The profession suggested the establish are research to one pump to force extensive arranges counts within could be rated for parting the supply of milk on a sound base. The Ledy Talloot Milk Insti-tute was insanched with the assistance of Government, Municipal Council, yoldic, and perfection, and as De-yvood has readusted in the ovisions often here, in in the ovidence given here, in the first year supplied performing mile which was pesturmed for the Lady Veilor Milk lessificate by a com-mercial undertaking. But after that time the Lowesistian mercan unarroung. Deviative has some too account of the determined to supply first milk, unecoled and ingresterrised, to the children. They then arranged, first that the cow abould be milked by milking unarringory. under ideal conditions on a form; the milk is placed in under sized congruents ou a nerro; une mair is puriou an bestilles and sold by distributing agents placed in covery subarts, and who possess cold storage. It is then taken to the house of the consumer, and placed in a small ite sheat supplied with a millionin quantity of fee to

itse thest supplies with a sufficient question of our loss loop the milk cook. That has been down for the last keep the mist one. Thus him norm owen to use and three years, and the pensional consists have been most grativing, that is to say they were in the districts in which comes figures were obtained. The reduction in granting, that is to say stary were in the districts in which creek figures were obtained. The reduction in markality is very great, and the indirect effect in above by the general demand of mothers for what storm my the general carmonal or mostors are wears they call Tellon milk. The commercial opposition was very litter, and it was very difficult, owing to natural

crimes, in an organization of that see to avoid finite that had to be climinated. Those fruits had to be retrieved. What is the stage the matter has reached; retrieved. That is the ringe the matter one consecu-but semething vary much more important has covered

number of us felt that this thing will never be put gibt until women themselves understand the nature

the problem, until their energies are located in rections supported by their feelings and instincts

directions supported by their feelings and instincts. The Netional Council of Women in Melbourne bagen to and consent content or women in meticurus sagan to site themselves, and they were kind enough to knower no with an invitation to hobies on the majest. At the end of the fortun, when I told them that in the few menths fallowing the house 500 below were on-tain to die, and ought not to be silewed to dis, they

catalannes reforming when one obsesses of beautiful, source largedy in the city than in the country, and more largedy in the demarky populated suburbs and in the power parts than in this richer. There focial are indirected by the articlenes of the Origination's stellar of the category.

said, "what can we do?" I said, if you see, the first ging is to become adurated. A course of extenden betters on the chemistry of milk was provided by the Distractly. Pity of these lettre attends, full-weak to practical conclusion, and in the very graped the softine of the prehiem. They done look the matter with the darkey control of the problem. They done look the matter with the darkeyses; they distracted it with them, they tried to read to practical difficulties the problem. The second of the control of the contr Fifty of these ledles attended, followed pin orthus quasilions to every sandmints for this Legis-ture as no clearational materia. As for all results, the gestions words—fast, Rey drew attention to the incurrent death of 900 features recently, they saids against the control of the control of the con-trol of the control of the control of the saids milk supply delay, because in Australia the inclusions conclusions are a trouble; and a control or the questions, so that the public from cost to cod of Thereto because superiorited with the magnitude of the prelature through the agency of these badies. The prelature through the agency of these badies. The "Material through the agency of these badies. The "Material through the death of the public, replacing, replacing, replaced, and approximately and the recommendations of that conference are being considered by the munoupathes. The tendency is to get the municipalities to control the milk ampty, as being the only possible solution of the difficulty and the

95

being the cirily possesses soutment or the otherway was seen supply in gonards. You undestand I am discriminat-ing between the Hmited supply mecessary to some in-fact life and the general apply for other people, which is not so necleus; but of the same time ought to be gui right. That is the steep of what has occurred up 50000. Well, at all events you have proved by the apperiment that has been made that it is possible to ove this helocaust of human life that hee goes on in new min accounts or pursua my that has goes on in America your after year in the warm second—It is epite definite. Anyone practically acquainted with the matter, who known where the since pinches, will say a large quantity of the broads armen from what any a large quantity of the totalis areas form what largers to the milk where it get into the bourse of the constraint, and to meet that difficulty the failest MIN Institutes proposited marses to wrist the houses and weaks what was occurring. I will give most in-ward, who has give a body to trace and weaks to give it a bottle during the might, avoids having to take the bottle from the billoon by yutting I under the mast lesses, and does not reaches that did is instituting the milk of the second of the second of the second of the large and the second of the second of the second of the lesses, and does not reaches that did is instituting the milk of the second of the second of the second of the large and the second of the second of the second of the large and the second of the second of the second of the large and the second of the difficulty that has to be overcome in the bouses work werner who sends a child out with a baby— on elder child with a personbulster form to the sen-store—puts the bottle under the matters of the parambushor and insulation it that way. All those things have to be dealt with sensibly, and obviously little by little most valuable work in being done.

50327. Would you tell the Commission what points have been brought before the legislature for the purposs of enabling them to carry out in a bread comanticipated I was going to give evidence when I left

satisfración I was going to give ovidences whom I left a have not the most recommunicions of this confer-nce. I will obtain them for you. Practically species the first Thur recommend or respect on quite a time to the conference of the conference of the confer-tion of the conference of the conference of the confer-dence self-bear references on the farm; that, I think a declaration of the convergence of that milt in correct is essential; the convergence of that milt in correct is essential; the convergence is that milter to reduce the conference of the convergence of the subrets. New the clear not reference of the convergence is that prote of the date; men who trade in the suburbs have got a freezing That has already occurred R0528. As a direct result?—Yes; he is bound to proours it for his own protection

own it for his own protection. 2010, the prior of the milick—"vary little indeed. It to done on a very large milick—"vary little indeed. It to done on a very large prin requis from the breavilege that it has been done in that way. The Yalloof milk is sent to the private redrigening estions, or different delaysam, who distribute it and my pold for the distribution, They work work the Schole Institute in that way. 50550. So these is no heatility manifested against the movement by those engaged in the trads?—Only by one, and that was a form which applied packerrised stift and keeps up a politic fight of pasteurisation versus cold milk.

30381. Will you tell the Commission your own per-sonal views with regard to the effect of pastormation of milk; are you in favour or coposed to it?—If it is of mills; see you in favour or opposed to it?—If it is considerated everys, as I are it on the armall could in the Sittis Read depot in Dullie, where you see not dealing with milk from tolescentis-steed below, it is the best thing under the eiroconstances; but to me posteroisation is always the second best times—below isless neglect, but not see good on the growsian of pos-mit form a behieveful-seeded bord. I think it would be unfortunate to lose sight of the ideal by insisting on pesteurising. The experience of the householders in preturining. The experience of the horseholders in Melhouse-in my own future, of commercially pas-turated milk, has made not very, way stretch. In its alternative control of the control of the con-trol of the control of the first warming you be a caything is wrong in when the milk sensits. Before this stage, in restend it is a potably existency for agreement the commercial point of the general control of the commercial point of were is that it mades the different weaker to put milk into circulation that ought to go down the sink. It is on the turn, and by parteurising he one preserve semblance of decepty with It.

the semblance of decreey with it. 20032. Spread the consumption?—That is rt. 20033. It is your view that if a pure milk supply could be obtained without recourse to particular these. could be obtained without recourse to passeumona, that is the better course to take?—That is the posi-tion. As the same time I should like to quality. One tion. At the same time I should like to quality. One not a bill advocate of the thropeaths. If you cannot do the very heat thing, the next best thing must be resultly conditioned time, the next best thing must be considered to the condition of the condition to the you would report it as the first condition to try and have mile preduced and bestelled under perfectly legisless conditions in all its stages eather than by redjecting the milk to partnership that the must be conditionally conditionally conditions the conditional that the condition after contentrations to take place—That is ensuit;

my practices that it that is would be your vice that a committee beginning into a qualitative of this particular impacts and making recommendations to the pental-ization of making recommendations to the pental-point, should sain at the ideal in the beginning-tual in it, even if you recommend that for the kinn accordance with the pental pental pental pental-tic that they have not an absolute satisfactual equival-tic that they have not an absolute satisfactual equival-tic that they have not an absolute satisfactual equiva-tion of the pental pental pental pental pental in-ternal that pental-recommendation might bring hidden evils with it that my to very serious indools. It may one family, when we used pasternised milk for a time, my wife has told me that the milk has turned solid my wife has told me that the rails has tenned sold in the bodds, but a son-times it would small so much stock it has the part of the sold honest renders who adulterate transes venoes was conserved.

3657. In the colliseration of milk dealt with in a drastic faction by the authorities in Australis 8-Bi is not dealt with in an drastic a faction as I should like, hus far more awardy than it has been. Fines of £30

S0058. For sublicroking the milk with water?—Yes, 20059. Have they ever had recouse to imprison-out?—I do not barnk so. We have been upring that 20089. Have they save had recourse to imprince, mental-ties not histories on the laws soon unique that this should be done, and I defind the Act provides that should be done, and I defind the Act provides that they may be no pursished; but I do not think that be pathle considerate the pathle considerate its medicantly accounted to the sense of potential number involved on to inflod involvencement yet a while. I do not think this first eventually a while I do not think the first eventual to the pathle of the contribution But the effect of the prosecutions and agitation has been to encouragely reduce the amount of adultoration :

been to encomposally reduce the amount of advitatement.

Substitute there is no exercise, should not see an exercise and an exercise an exercise and an exercise an exercise and an exercise an exercise and a

in seedy improvement.

S0541. Are these Inspectors under the control of a central governing body or under the eastern of load hodges—Mostly unfer the central of the Agricultural Department—the Central Department.

96

Dr. Jamie W. Barnerz, C.M.G.—8rd October, 1915.

664d. Of the State?—Yest a very large department.

50543. And responsible to it alone for the elumination of the duries they undertake to a performable in a part of the source of the s

there are few becker—the Agricultural Department of the Yabila Hamila Department of coverrish the lead architect and the second of the lead architect at the lead architect at the first follow to submittake legislatine which is provided for the pathing good—I whale as far as I can say that is revised wherever possible. Bidds: Harvy were become it to coopyr—the world he pathing the pathing to the coopyr—the world he had been been as the second of the inclined to say year. Bidds: Harvy had been as the pathing the pathing the part of the pathing the pathin

but I faint is in roose often done quietly, allently, you perceive; that is to my, an otternyt is made to get the work done pleasantly.

50.564. And the moved force in found to be sufficient without having recourse to extremilies?—It is the view with report to great changes of this notice that is to on obsertational force you must sety to get steps work.

to conclusional force or government of the policy of the year work disset; in cruzy of knyectors can't do it trailess the public stadenthing the instance of the issue.

38497. I tules it there is no such thing on a example, at any season of the public stadenty processible for

Solve. I were it were in no well stalling we is measured from the month of the stalling of the

the man and the control of the contr

is, from what you have said—its. The State, I blink, as giving 41,000 a year.

10551. A general great towards this philanthopic uninvising—Its.

3002. Here the level sutherities ever been saled to confident to the same objecti—Thoy do; some one signate 400, some 4100, sourceing to the amount of

where the the locality. Second to be amount of manners in the locality.

The locality is no control over the expenditure of the amount of their continuous; they provide the first parent fund, which is used for the private time for green fund, which is such for the private time for green fund, which of stirlly in the provide the private private for the private fundamental private for the private for manners of the private control of fortunations. You can be presented this is under course to of fortunations.

esperiesce. Some cerious to know that?—That is to any the Conversees; is co-spending. It bes supplied is species from the Agricultural Department, who go cot and upperign the milling, and so chies the form

bedden, we construct the control of the fields with repaired to the control of the control of the fields with repaired to confliction which come under the fields when the paired to confliction which come under the goal to desire above they believe there is believe the goal to desire a factor of the control of the control of the control of the linear of the control of the control of the control of the term the Soiste, remainded by and public; it has the size of periodic of the Application Department, insulating the greatest of the control of the control of the control of the three is no need to not be control of the control of the three is no need to not be control of the control of the form is applied warmen.

00000. There is greened on-operation of the Siste and the local subherition—all with a view to propuring the same end/A-view.

30007. Do shay every inquire into the keelth of addity obods, or one only conventuations made to this Committee as to the condition to which the district and the condition of the condit

MASS. And does not go rotteled-No, but the Agimitted Department incurres into the health of the charge tools of the sources. School, it is no public health compatible by the same proposed of the sources. School is the public health could be approximated of the health of the south to be a public to the health of the south to be a source of the same would be primarily for the Agencialema Department of the source of the source of the source of the same would be primarily for the Agencialema Departcessation, we serve job would probably communitation with the Minister of Agriculture. SCOL No indeed has assisted between the admini-

scending was wrong in would probably communicate with the Midsheet of Aprications, where the collection with the second of the control of the collection of the collection of the collection of these less deportments.—New whatever, tooks I take in your hosseledge would not easiled you to speak of the conditions provaining in the result districts establish the claims—Talk's in on my brainess. I would be collected to the conditions of the collection of the colle

storement in symmy to entities in registration.

160508. From this public health points of view largely?—Thest is it. Though I can cone of the true telest no active part in the work. My work has been on the outsides, in on-descouring to belp it whenever it came into public profits.

18656. The public mild and canadinate loves beyoneconcistly miliphetated by the procedure stepted by these "—Marifieldy.

18055. And you also stated that this Committee bad a very based and offered an those who was engaged to be commortal mile supply for the other Table is on the commortal mile supply for the other Table is on the commortal of the other methods invest boundaries abstract becomes militaries and the Yadyah Milk Committee"—Table is not the processing of the proc

ministration of the Yulbes Milk Commission—That is in 1939. Two is now held any appointment with regard 1939. Two is now held any appoint health of the only the control of the property of the control of the conof the control of the conof the control of the con-of the control of the control of the con-of the control of the conof the cononon-

Department.

50098. I was curious to how if there is in your country say condition analogous to that existing in cours, cambling public health sutherities in certain large cours, cambling public health sutherities in certain large cours, cambling public health sutherities in certain large courses of porticions to go, if they have reason to believe that the milk simply of the city is a scores of infection, thus the distinct in which the milk in public public infection, thus the distinct in which the milk in public p

minerace, little one manner in whom the frame is measured for the propose of hypothogs that the confidence under the first the produced in the confidence occurred by the confidence of the conf

from Melbourns. They promptly impounded the confree who caused it.

36570. In it only, nonessary to early out those proceptions their your summer someon—The Tallock selfer suspends (in operations for the purpose of concep-

cold respects the operations for the purpose of sconcary 50°T1, and the marks to the spills beside there are bout such as to formant that the other shorted to realsational throughout the whole year.—The feeling was not all the spills are shorted as the cold of the colsion of the cold of the cold of the cold of the colsion period it was bedder to prevent deaths whose most deaths cold have no control, and it is was very say the reason. The figures in Architals strew that is the reason. The figures in Architals strew that is the reason are the deaths cover from Interface and the reason. The figures is a first all the reason. The delifiers epitalists tell in this range of those in the delifiers epitalists tell in this range of those the property of the collection of the collection of the colcelling the collection of the collection of the cold of the collection of the collection of the colcelling the collection of the collection of the colcelling the collection of the collection of the colcelling the collection of the collection of the coltering the collection of the collection of the colcelling the collection of the collection of the col-tering the collection of the collection of the collection of the col-tering the collection of the collection of the collection of the col-tering the collection of the collection of the collection of the col-tering the collection of the collection

tillion by Minnaus districtors; to consupplements on the control tillion in summer. There again is an example of the found havage done by decomposing milt. You have an estimated of dusthis in the summer, but the deaths in whote of hemedo-parameters one 'to occurredly theird,' a summer, but the deaths in whote of hemedo-parameters one 'to occurredly theird,' a summer of the control their occurred by the occurred

90072. Miss MoNERA—Wholer is practically over a broaderds—East. 90070. Dr. Mossenan—That was; both desilend state the introducer of Febber 20187—Xes; the most state the introducer of Febber 20187—Xes; the most state that is not under 10 per 1,000 herets during the first yest of tile.

handred lives more per smann could be saved gosts. The rate of 70, which is half what the peaos for Ireland altogother. of for Ireland altograther.

SOWN, Largest in the two ciking — Ves. In sub-togrand Queenthink, if my recollection server are— In-terior of the ciking and the ciking are also as a construction of the ciking and the ciking has a for exposable, because Queenthink to possibly because there is critical are served. By you can have alone in contraction of the ciking are also as a served and a proper of the ciking are also as a served as a served as a proper of the ciking are also as a served as a served as a proper of the ciking are a served to the ciking and the galaxy, has people can get rulle cavilly. Where the speciation reasons there operation are a million, and

roes up to soven militons odd, a new recolum arises. 2037. Ledy Evenano.—How long will the milk coded keep frush?—If it is delivered in the morning it could be desirely by miss that evening, because the les will have mobiled. It milk is scoled efforcettly the los will have money. If there is seems assumed in will appearently last several days, although it is

in the apparently has several days, source, and course to keep it as joog.

3078. You may have heard year-day when such life was going over to England thesi when artificially solute, and at had lested quite theirly-door hourselfs McCarte.—All pestorized, he said, before soling!—If from McRitz—All pestorized, he said, before soling!—If from milk were socied to from 84 to 30 milks and the several would keep quite a large while; but in a coming —in read mine were cocces to from se to de degrees it would knop quite a lang while; but in a grivate house you examot loop it at 58; that is the difference. Once it gets into the private house it must be essently consumed or thrown men. You can become is for quite a considerable time before it rely to the it for quite a constauration time inform in gate to the breso with proper refriguration and plans. 80079. Dr. Macomman.—The milk supply through this Tubbe Institute; that is all of it from our herd?—

3090. Is the milk all rectuced under cover in the 30300. Is the more an postuped under over as one should be supported by the buildings are excellent, well-hust milling sheds.

2031. And they are notedly stall-fed in the summer scatters are a very large number of azimals scattered in comparatively small ground. 50382. It is only twenty accest—Yes, and about

5088. It could not grass them 5—No. 5088. You can profuse good milk under these condifficus!—Apparently so. 20000. Is that the usual somilities under which milk

is produced in Australia?—No; it is only done hecouse it is in the vicinity of Malbourne. 2006. The re-actors are put out of setion at once? xee. 50087. In the milk given pure to the children always: ONCO. If the mar given pure to the cultural advice.

"This is again a matter of modical advice.

0008. If it is diluted it is diluted with ingredients prescribed by the doctor—Eas, probably water; it is to stalled for medical arrangement. It is propried to a large extent to the necleoted oblides boarded out under t Neclected Children Ast or Infant Life

Act-I have furnities which Frotestion An—I have imposites which, 50509. These is nothing added to nectoralise the soliday of the milk?—Not as a rule.

2000. Nector is not a rule.

2000. A soliday is make up the definiency of the super.—I think super is added at times.

2001. You see solidard the result has been an economics saving of horman little —There is no question.

80000. You believe it is the right way to give mill in its purity?—Yes. Two years ago a poblic attemy was made to destroy the Pallet Milk Institute, not was made to destroy the Tallet Milk Institute, and in their reely to the state the whole staff of the Molbourne Children's Hospital lodged a public postest, and urged that the Institute about he constituted at The whole profession practicosts and By rose to the occasion.

NECTAM.—At what temperature is the mile fed to the children?—It is kept in the too chast world it is used. The mother than warms it und the does not give it stenight out of the ise sheet to the shild. I should think uch.

30394. It passed through my mind that perhaps the object of the poor women potting it under the matteres was to raise that control the control that of the object was to save bread the besubte of gatting up, but the dealed of what sateships. the chary-i think mer orgors to be the set of what seton tended of getting up, but the details of what seton tender in the house do not come under my notice.

ent5-Yes.
With a Miniater who is papearable to Par-18100: 1500 to Minister of Agriculture and the Minister of Poblic Houlds then have this master jointly under of Politic Health then have this matter jointly under their charge?—Zen; diffurnat divisions of it. 10090. What is generally the state of the milk which comes into Methourne for general consumption, which comis more measurement for general consumption, not required for Thick milk?—In the winter it is all right. In the summer it is very much better than it used to be, but vary far from belog what is desired, and that is because the Australian militage horse and the distance are such that the marning's milk gets to

e city in the evening 30500. And the even 30000. And the evening's milk it consumed in the morning?—Ees. Then on the Wednesday and Sunlay half-heldays there is only one delivery. Unplement

build-bligs there is only one delivery. Unpleasant things hopper from mixing the scho with the feels, that has been one of the problems. The feel of the 1600 De the covinceper who provide the ordinary 1600 De the covinceper who provide the ordinary build-coving the covinceper of them. On the feel build-coving the bear of the covinceper of the 50001. Using the tolerants unstage?—Dr. Onescero, in Director of Apricolators is even the principal vetori-

mery editor.

DiOLI, Ase the tropectors he employs by imposition or more testined on searchful lines, reformany magnons? Impossible the search of the search

steply of milk to Melbourne cooled heters it goes into supply of finite to measureme toose meets as government the city?—It is only cooled on what is called a cooler, which siways seemed to me on shammariton, because cen't reduce much below 65 to 7 58607. In it remains water?—It is a corrugated piece of metal (with water on one side), over which the mills runs. They generally use well water, which is relatively cool to the temperature outdoor, but is not very cool, and when the milk gets to Methourne if goes now they cool storage. But it is what happens to this milk between the farm and Methourne to the milk get to the milk per the cool of the period of the period of the milk period to the 30007. In it common water?-It is a comparated

which is the difficulty, and the next skey will probably be the sportions of peoper refrigering plants of the farms or groups of farms.

I want to be a support of farms.

I be supply to the state of t fairly common, and machanics learn to handle them very well indeed.

20120. Do the mass of the mothers in Victoria nume their infants?—Yes, I think so. A very great impetus has been given to a movement in that direction. The had been given to a movement in that mirroboot. The bulk of the Bables die befare they my six mynchis old, and there is a general tendency, backed by the medical profession and all secretics women, to get mobiles to agree their bables for six months. That has elimirealed greek of the trouble

20611. Prof. Merran.—It is almost impossible for a woman engaged in sumo occupation during the day to breat-feed her colli?—Yes; that bagones. To meet that a gruters of day proches has been daveloped. 20513. See Structure Woodstown.—In the Widel test and in cases that are under suppleton? You must tioned a case where a carrier was impounded; is there may test?—No, the Widal test is not in general use. 50013. In the good at Malbourns extending to other cities; Bellaust, for instance 1—I timb so. The sellins of the National Council of Women has been far-reach-ing. The women have begun to understand that this

is their problem, and that they must deal with it 20014. Dr. Mcommun.—In regard to cowe which have passed away from the Hope herd at the unit-with are theoretake, and which, as Dr. Wood told us, probably passed to smoker hard, I am sexticus to knew whether the Committee which set to consider the

Dr. Jame W. Bannwy, C.M.G .-- Sed Geteber, 1918.

work to be done in McGreenne, took rate consideration were to be due in According, soon and transportant the possibility of this milk, gotting into the ordinary supply and what they would have recommended in one in this go into the ordinary report, Chronolly those sorw well not be put out of work?—They would these sorw well not be put out of work?—They would be the put of the put of the put of the put of the this control of the put of the put of the put of the this control of the put of the put of the put of the put of the sort of the put of t powers to seize, end he said, I don't know; if you powers to seize, end he said, I don't move; it you were to put out every cow charged there would be a milk familia. That is where the bother comes in, as 1000 famile. The mik goes into the ordinary supply?—
I don't know to estain what occurs. Dr. Cameron I don't know precisely what occurs. Dr. Comeron would mewer that question if the Secretary dropped

20118. It would be interesting to know. Where the milk yield must consein a fairly dangeron amount of tuberculosis ?-Quite. 50617. I was services to know whether that point

beel once under the consideration of the Committee who were advocating the pare milk supply, and, if so, what recommendation they made —I am sure it has ome under their notice. Dr. Carmon equil say quite easily what recommendations were made.

3618. The CRAIDERS.—Would it be possible to promite a core of the recommendations.

oute a copy of the recommandations?—Not the least difficulty. And the Secretary to write to-day and crich the catgoing mail to-morrow. You would have the the congerge men to incertor. You would have the information in eight works.

SOID Dr. MCOUREAN.—Be to the recursion's common manager the convert—Facility.

SOID. Prof. MINTAM.—Do the inspectors that Dr. Cameron seeds out from his department go and see

Consistent states of the contract of the contract of the contract are supplying the general made upper of the city?—Ten.

DOUBLL is it not blicky that these men, being treined men, would be able to spot if these estimate have their other contract of the contract of the

tollet (control or more—a course new words.

\$4000000. And if an artismal head been telepercular in one
beet and get by some means in acother, they would be
side to detect thath—without specific incredels;
would not be ship to somew, but I should say for
certain that Dr. Canceron hee dealy with the metter, and deals with it effectively.

50620, Sip Straware Woodencer.—Are preservatives slowed?-No, they have been stopped.

50034. Swee in creent—I am not sure how far the power effects delines to that direction. In milk, no. I know that. The Pare Food Acts context very stringest presenties. The legislation obtained fathing putting became seel into milk as well see westering in The CHATRIAN.—Has that heen neversly dealt

model. The CRISTERN—Has that here severely dealt with—"Fey," MOGES, Miss McNeuze—I think you instructed you add expecience as to the printister whose of heated suffer—My experience to surely this of a presst. One of my thinkers was fed on a mixture of one of the off my thinkers was fed on a mixture of one of the my thinkers was fed on a mixture of one of the my thinkers was fed on a mixture of one of the first beautiful as the mixture of the surely of the risk of the control of the mixture of the surely of the sure dewloped scurry ricketo

20027. It was not fed on milk stone?-It had in aditsion one of the carbo-hydrate foods; is developed definite eruryy rickels. 50038. You establishe that to the milk?-It was very difficult to what else to etiribute it.

difficults to what else to obtatude it.

00222. Because the point was reliad hers, and we
00222. Because the point was reliad hers, and we
00222. Because the point was reliad to
find the bit Pentercined MRE Depot in Dublin
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one of the obtatude of the obtatude of the
fairly and transpentionably obtained to the use of
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fairly and transpentionably obtained as present pickets
in almost unknown, almost dublin great pickets
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securited farms like sourcy ridedes artist, and when its
control far my own fairly through its consists of the
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tion it was a very fearing missensor.

35600, Sourry richests is not at all common with us
in Bublin, we have got very few cases of it. I know
that it is rether a point of reflocing when a case forms
up for eliminal purposes. We have been it a vidence Shop Si sellow a point of regovering when a tess nume, up for difficult purposes. We have been it is wisened Dr. Lauredon, who has all along, from the beginning of the Preference Milk Depth, here particularly out-ful in noting the effect of the milk on the children and is arbitrouch within the Library of the dis-section of the children of the disand it evolution on easest that the distribution of the dis-pensary—ordinary working class children who came to him in the ordinary cruste as requiring medical treatment either on their own seconds or because of being children of difficult mothers, and in all these 120 cases he had never noticed my once of

rights to sourcy. I quote him again. In every case be has teested those children as least fortugally all through, sed he has had them all even atherwards— during four years he has not lest sight of the shiften during four years he has not less sight of the shifteen offer shay more beyond the stage of infrarey; these was new subsequent interest developed. These was one case which was quested in Debin as a distring wery strong grand of the tooletoy of bishers following the one of particular duling the only distribution in property and particular duling the only distribution in your dis-tribution of the tooletoy of bishers following the one of particular duling the contribution of the distribu-tion of the tooleton of the contribution of the following the contribution of the distribu-tion of the contribution of the contribution of the following the contribution of the contribution of the contribution of the following the contribution of the contribution of the contribution of the following the contribution of the contribution of the contribution of the following the contribution of the contribution

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\$0681. He recommended-I happen to know from SOURCE. He recommended—A nappest to assess even consisting of the mothers—in a number of once they id not set the course pure. As a matter of fact, we did not get the coupe proce. As a matter of fact, we know they find not get to-it was not used as a regular corrective, use in the susperity of once-not one-half got it done. If we had to depend on the milk being

controller, our To the tripledity of conte-cast cat-class, and cat-class cat-class and cat-class cat-class and cat-class cat-c UP to see the becomer in bis-sharping -- he as a negsome friend-and and, will you give the lectors on

3034. There were no University graduates—it was 20034. There were no Un'eventig gradiente-sit was recovered processed. Note of them were producted, several processed to the processed processed to the processed processed to the processed processed to the form processed proce

valuation. 30050. Do you know what is done, was unything done, and what is done other than be the Talbot Milk Supply in providing milk for individuals and present who may be upder the poverty fine?—Tes. An opposition undertaking, a commercial one, which provides

tion untertaking, o estimateités oes, which prevides patentined mills.

2003, Posteuried in balle-I-L out "igne par par la writes of the desides is is empired in ballés, est à voice of the desides is is empired in ballés, est à revision de la constant de la con

foliate to milk produced under such conditions as the foliate milk?—He is their matical officer, is a very good practitioner, san prefers the pasterrised mile for perticular suburb. S0040. In there may provides in that for their comer oblides?—It is the same there as clarathere.

points outsidestructs in one same some me calevaries, the Munistral Commel pays so much a your for in-fasts wells for the encreenage. In the other suburies they pay so much for Tablos milk.

DOM: And it is for that purpose the munistralities give their grants—Thinkely.

80642. To meet these necessitious cases?-Yes; the sentiment is that it is cheaper and better to save them baltes and bring up Australian offices than pay money to impert emigrents.

20648. Larky Evenance.—How are the greats given to See Talbot Milk are given to the Talbot milk are given to the Talbot Milk Institute, which then distributes. In the distribution it acts so reports from leading pulmultengist in the contract of the contr irilation it acts so reports from seasing philintenges societies which are exquainfied with the necessition once. The person who recommends the parternised milk is the medical officer, and he knows where to put his band on the necessition cases.

Dr. Janes W. Banning, C.M.G .-- 6ry 30602. All somes from the country?-Yes, and some on very great distances. If it comes 100 miles from from very great distances. If it cents 150 miles from Cooks in this without protession from the sen at the number of the control of the control of the six number of the control of the control of the six account at anything from 80 to 160, the problem becomes a very live one from self-sidely. a very live one from self-sidely. The six of the control of the control of the control of the control of the protection of the control of the women—in thinging pressure to have on analysis of the women—in thinging pressure to have on analysis of the control of the con

2064s. What is the grant per person?-I do not are. The grant from muricipalities veries from short £100 a year. 20046. Supposing there is 2000 from Victoria, would it be proportioned, say, 270 for Taibot milk and 230 for the other?—No, that moves buppose in a menicipality. But this current revolt has hoppened in one sussespathly which determined to supply the pasnumerparay which determined to supply the pas-teorited with. In spite of that the demand of the supple of the district was such that the Talbot Mills

Institute went on supplying their milk gratuitously The mothers did not want pasteurned, but the Talbet The mounts out not was passedience, are we can call, although they did not have much about the case of its general regule. The expression Talloot Night und Talloot Boby has become quite general. You continuely hear of a baby as a Talloot Haby, because continually hear of a buby as a it is brought up on Tellect refle. 20165. Dr. Mconman,-The Tallot Boby has almost

on shealth minutally from sickness?—He is relatively insures, repedially when you consider the class of population from which he comes. 36647. The Character-Do you find the municipality ever bes to querrel with the administration of aver has to quarret wise use somewhereous as an Talbot milk committee by resear of giving preferential treatment to one district of the city as compared with

another?-No, I mover beard of thes point being raised 35 an.
3648. Have you a number of municipal submittee controlling the same city, or in it all under control controll—The city of Melicums, lite most Australias cities, is a conguist of numericalities. In its own department the municipality is absolute a confide of nothertly does not arise. 50649. Apparently there is no analogy to the condisions obtaining in this olly and those prevailing in

your locality. Are the poorer porcention mostly conted in one district in the city?—To a large extent tioned to outsentration and powerty, 20650. Has the bouning problem been regarded there

SCHOOL, MAN 500 FOURTH PROBLEMS OFFI THE PROBLEMS WITH THE PROBLEMS THE PROBLEMS OF THE PROBLE specing areas.

60651. In there any of the milk consumed raised in the city itself?—Very little.

50854. Onn you give us any indication how they sai short inte-The Neticosal Council of Women can take no part in party politics, but to practically every candi-date—certainly for Matheurase and contactly in the dile-certainly for Melbourne and consenty in the country-thay put a set of questions which amounted to bile: And you in favour of arranging for a durble mill: supply? Are you in favour of the municipality milk apply? Are you in favour of the municipality controlling the milk supply?; and then they saled them whether they were aware that 800 bakers were going to die. That was done sverwebers, and of source everybody answered yes to those two grantions. 20656. What was the nature of the coulded sug

for election?-Tes.

3000c. What was the nature or me course sug-graved?—That arises out of the information you will get from Dr. Cameron, the details of which have slipped my mind. The suggestion has been frequently theorem out that the mornerpalty should establish in such numericality odd storage works, with a big channel in charge, and that the numbrigative should distribute the milk, but should not produce Should assuments the mans, but make an and its looperied and the that it should take the male its looperied and distribute it with warn from house to borne. At predistribute it with was from house is borse. At per-sistent each one goes reused the consumers district, and the result is the cost of distribution becomes exe-race. The build of the cost of the multi-consumed the consumer with the high was always station to the consumer with the high was always state to could be seen of your apply, and the numericality sent one can draw the steed regarding to distribute, it would be very growth more encountful. Of others, it would be very growth more encountful. Of others,

sych a complete development has not been suriously 00556. Do you think thay will succeed in securing that municipal control?—I could not say. It depends on political considerations. 2027. I suppose the National Council won't lot it drop out of sight?—I don't think there is any likelihood of that,

The Chambers.—Thank you very much, Dr. Bernett. We are very much indebted to you.

The Convenience officered.

FIFTY-FOURTH DAY.-THURSDAY, 7TH NOVEMBER, 1912.

The Commissioners met in the Town Hall, Manchester, at 10 a.m.

Present: -P. J. O'NEILL, Esq. (Chairman); Lady Everand; Muse Mangarey McNeila; Sir Stewary WOODHOUSE, M.D.; J. R. CAMPRILL, Esc., R.Sc.; and Professor METTAM, R.Sc., F.R.C.V.S.

S. W. STRANGE, Esq., Secretary

Mr. J. W. Berryagases, M.B.C.V.S., D.V.S.M. (Vict.), contribed.

30658. The CHARMAN,-You see the veterinary inspector under the Manchester Corporation?-Under the Sanitary Committee.

30505a. Would you kindly tell the Commission, bristly, the dubber imposed by their position?—Origothe dates were to bespect and supervise t hally, the discuss were no suspect that courty out the heaving of attle within the city, and to carry out the working of the Manchester Hills Chouses, which were obtained under the Manchester Ground Powers Act, 1899. These see my delife connected with milk.

Occe one other duties.

30499. Those are the duties in which the Commission MMM. These are the duties in which his Commission in under the comment in the DMM. What perportion of her milit consumed in the Oct of Menchanter in musel within the other sees, and the seed of the comment of the com

age, and the rity as in a wall of the second and the city as it is to-day, sie two entirely

diministrat.

20083 Has it been the desire and sim of the Co-position of Manchester to secure a supply of milk from the runs, other than from the city, seen—These bea-lears no driftle soldy supersed under that head. uni rum, storer than from the city, area — These bas beam no drightle policy sourcesed under that head. With certain qualifications, I should my cother the reverse. We have attempted to abolish, and have succeeded in shelishing, all corrubeds within the centre of the greaded population of the city, and we have now get all our carry frame on the outsides of use occulation. So heng us a must is so stunded as mor so make his calling a resistance, he is encouraged in every seasible very to continue that calling. We regard it in the light that it is better from this point of view of sabile points, to have a fir percentage of covernment so that you may inspect them the more

equently. 30664. Have you subordinate officers under you, to carry out the delice you have indicated?--We have to qualified men no qualified meet. Stock to be have no qualified ment but have you no by impostory?—We have a analyze importor, who is an improtor of databas and milliothops, with regard to their completence with the Manufacture, early regard to their completence with the Manufacture regard to can assist in impossing ceitifs, but movely with negard to describing

2056. Tes; I quite follow you. Are you familiar with the conditions which obtained previous to the time at which the Manohesier Corporation obtained the som in white the attractioner Creporation obtained the powers not resided in them, under the level of 2009.— i am familiar by reading providing all the reports which were vertices, leading up to the powers which were obtained at the communication of the work, those are the Marchelett Regulations, which we work on in the city (copy handed in).

30007. Thick you. If you would be kind enough to state, briefly, the secufitions at that period, the period previous to this new legislaritys, I am seen to would be very interesting to the Commission II—with our perceission, I will read you a few notes I have here-extracts from reports, and so forth.

80008. Thenk you so much "-It would be ante to say ask, practically, the work of supervision of the mill that, profitally, the week of supervision of the milk supply commenced at the date of the appointment of

Dr. Nives as medical officer of health. That was in It has been carned on over since. At the time of his appointment the condition, generally, of the howing of mich core was unsatisfactory to a degreehousing of mint new was unstrustoury as a segree Many own were found to be subtraining from taker-calosis, and the politition of milk from other sources was of no slight extent. Dr. Niven personally visiged all the cowhells in the city, and, having satisfied impactly that a full milk complete fravelleption of the states of the Commencing in the early part of 1898.

cattle housed therefor was necessary, he requested the late Mr. King, a member of the Royal College of Vales-nary Sargeons, and then chief returnary Impreter to the City of Manchester, to carry out such as inspire. escriction out a systematic imperior of ninekydive form presents. The number of consists imposted was 185; of these 0 were unscrupied cowhede. Of the 176 occupied combods, 227 bad a critica allevence of less than 800 cubic feet ner stell. Dr. Nivos further TWO compact convalueds, 227 field a cutton thereome of team then 800 onto feet per stell. De. Niveo further states that in a bego proposition of the cases the field of the state of the convalued of the cases the field of the convergence of the convergence of the operators, that is a convergence of the process of the operators, and such that did were bound to accomplish and each field the field. The result of the convergence of the convergence of the convergence to a convergence of the convergence of the convergence to a convergence of the convergence of the convergence to the convergence of the William 24 from generalized teberations; and the re-unitary 14 from generalized teberations; and the re-mainder from other localized forms of telegrations. It should not be forgotion that for some time pre-viously, and also during the course of this trevelagation. Problemor Deligible hall been at work on the broicin-ing.

lapins) side. I understand he is to give evidence him-self, and, no doubt, he will deel with this report. The whole of this positiminary investigation was the The whole of this posiliminary mustigation was the subject of a much sucquestionarie report for Pr. River to the Backlery Committee in 1867. The report is briefly summarized thus 1—(1) The strine of the constitute is back, as suggests covering, worklastics, and lighting. The flows also in on other back. The cover are not interpretely drive. (2) There is remain illense to the other back. are not infrequently drivy. (2) There is menes measure in the eventhele. (6) The milk, is a considerable per-tion of solution in the milk is a considerable per-tion of solution in the milk of the milk of dangerous, is o years of hidron especially. From some severatio, a rivary and peculiated courseign against the installator, combular our contribution by Dr. Niver, and resolutionly Strumment was centred out of the service, many much work was done in the direction of improving the existing conditions. Many consubols were closed, and others were altreed to comply with the Mattelwater Begulvidores, rando under the Darries, Coushirds, and Milkalogue Order. With 6th work was being product Milkalogue Order. With 6th work was being product much work was being done by coreful charrenties

co, minor gols, was seing come by coredur convenience and investigation, on the part of both Dr. Rivers and Perfences Deligitie, to show the accounty for executing access control of the surprises of milk which comes from outside the city. I do not know whether you wish ma-to deal with the weak which led to the estimation of these powers.

30000. I shink it would be of gons infeces to the Commission?—The results of these investigations are contained in Dr. Myres." Statements in refresse to the proposed Manchester Milk Chasson." In scaling IV, of this addresses in Myres recentled, they in Bartin IV, of this addresses in Myres recentled, they in Bartin and 1988 108 samples were obtained at the Manchesker milway elations, of mixed milk saming from farms outside the district.

3070. That is craided the Manchestor district?— Yes. Of these 168 surroles, 30 proved to be tribe-culous. The craminations were confusted by Professor. Deligine, who has bestowed the greetest there on this Deligine, who has bestowed the greatest care on this master. Thus, the percentage of sumples taken whosh The state of the control of the cont

too in 1800, and, while the monostance, they form how to considerable of the control of the cont

Which is the first matter. We form were all only were there, and freely, it illustrates were clarified more than the first product of t

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39278. When you speak of the Minchester sees, do you meen the area from which the nells supply of the city is obtained?—No; the area of the only of Man-

2007. So of the cost - No. The production is secured to the cost of the cost o

shads, lies much of the security for the freedom from disease of the rellk produced within the city. It will be seen that only a comparatively small number of coversuffering from tuberquiness of the under have been

from in the city during the last ten years. It does not follow that the number of sown frond suffering from tuberculous of the udder represents the total number of gover formed sufficient from behaviors, to the chain load, and war, I yar open from; a muscle see that the control of the chain load of the chain

were 404407001. We have no buttercular touted heads within the dily. I have make many obscipt to source such heads, but the immens will not do it at their own expense. Many are quite willing to ender union arrangement to clear their terms of tobercolors called, it the manaripality will say the cost, and if I can apply the test.

50075. Do you refer to the cost of applying the test.

the test.

50075. Do you refer to the cost of applying the test, or to the cost of the removal of the cattle?—The cost of the test.

50076. Sir Berwart Woomnous.—They are willing to to allow you to apply the independint test, if the Cerpocation will pay the cost—Vec.

50077. The Channaca.—When you speak of the cost,

50077. This Charman.—When you poule of the cont. It is the once of the application of the test, not of \$6008. They are willing to submit their brings of the control of the test. The submit their build not submit their build not submit their build not submit their build not the test that the submit their build not the test to the Congressition, have been been build been made, what is it is because of the test that the submit their build not the submit their build not the submit their build not the submitted been the submitted to the santiage committee. I prepared what I thought not a complement or admit of dealing with the build not submit the submitted that the submi

was a comprehensive scheme are desting with the bredstheir slight is evidented to the behavior. The set. The tension of the set of the set of the set of the was thus the sattle should be temperated to the feet was thus the sattle should be temperated to the set of thirteen, and then sout into the sity should be distorted. There was no difficulty about that, because them is no breeding in the skip there is no carbing, and the set of the set of the set of the set of the in the stry by the companion where their tevelve mostles, in most occurs have considered as the set of the set of the in most occurs have considered.

\$6000. But suppose your core was a yeary core, which had just been preclaimed, and which had just been preclaimed, and which had just calved; also has been on this farm a few weeks, and you reply the tuber-wise less, and also receive, you would not send har to the butcher thou, would you?—Yes. \$6000. At come?—Our not recessably so tense, if the

continue and the imported by feeding.

3068. But, in the inspirately feeding.

3068. But, in the inspirately feeding.

3068. But and "No) unlass the featurer chose to set up a suitable stretchesing superstate.

2000. But it would be a very ministration lies to the function. Suppose to pays 420 for a core. He puts the stry, including the superstate of t

farmor. Suppose has no entire interest did the to the day, and the day, and then he state has the day, and then he state has a state of the day, and then he state has a state of the day, and then he state has a state of the day, and then he state has a state of the day of th

very man live craces unit mention each cown. We there excluded these currenties rate would be a fairly live car.

36006. A counder of the Public.—Mr. Chairmen, I would like to sak the villacear's opinion on a case of this land. You rive a ownered of telementous cows, and you put in a final list of cores, which have been exceed, and which have been operated, such which have been proved setted. If the cow.

other in our sile of the properties comes. At the openwhere the control of the control of the control of the conwided the control of the con

solvedified to use to paper, but I seeds not press Mr. Bieldleback to manyor such quotestime. The Witness—I shall be perfectly will be for sometime to be seeded to the long angle to also with 1 below on, 1000 Mr. The seed of the 1 below on, 1000 Mr. Commerce—I shink that will probably satisfy this perfection—A. I have about to say, these satisfy this perfection—A. I was about to say, these many the seeded of the seeded

oranti toly rocy was a saveyescencest, to the property of mild — There is no adjusting to that. The rock of protects or related is the distinctipy of considerings the other milk which would be brought on to the turn, and which might come from annuals that had not possed the turberwills took, and you would have good differently in controlling that.

and within striple come from which they had not discussed by the control of the c

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30400 Mr. Ourseman.—In segment to moting scene
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Sign. The Courses.—That is because of moist dire?

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—There is mobility and add this.

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1000, Mr. Courter—That our is known all work

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it is possible to ensure that they weak their hands, it is hardly sufferient to let it end at that. It may be thought that it would be compositively easy to get giestly of detaily young country inhousers to come in paging or ensury young commy moreover to come in far only employment, and it were as one time fairly easy to get such men, but they very soon left to go to some other claim of employment where the hours are not so common. The powers under which the super-vasion of the only cover is a describinged or the vason of the city cove is accommend are the Manchester regulations, made under the Dairies, Cov-steds, and Milinkops Order. I have not down one or two things here as to what I consider desirable amend.

meets in connection with the treat.

5003. The Chartness.—Yes, please ecotions.

7th Winess—This fact one deals with a question
you have already adeq me. The responsibility order
in regulations for a structurally insuattor, cownied in

we the occurrier, and uet the healtest. This, in my

the occurrier, and uet the healtest. This, in my upon the occupier, and not the headlest. This, in my ogicion, should be reversed, for it is often very difficult ogenous, acouse on reverse, nor in a creat very composed to get according work carried out, and it is impossible to administer these regulations without at times 30 gHz of these regulations without at these infinites handship on a max who may be an entirely described handship on a max who may be an entirely described handship. On expensions maker this head is that. In by far the gest margicity of cases we have go it has included to the law work, but the negotiations have been very inceptly, and in many cases examined at I. In more cases they have gones to as

after we have threatened proceedings, and they have after we have introduced proceedings, and they have grean undertakings that the work should be certied out to a certain specified time. In only a few cause were those undertakings broowedly observed in regard to time. We have never asked for this work to be done of unreasoustable periods, but always in the ammuner

note by communication periods, out armys in the immuner meeths. Stock. The Chainmans.—When the byree are couply?—Yes. There are notath once where the landscorts have dustined to do enough, and we have sumply had to shough by blaze as a dury. In one or two cases the to excee the plane of a daily. In one or two cases the men prev up keeping cown, and want in for carting or something of the kind. 8000. These cases are all in the day proper?—Yes, 8000. These cases are all in the day proper?—Yes, 8000. Here it bear in conservence of financial

insidily to carry out the suggested alterations that the occupies has released, or because of his having an unsatisfative teams of the place occupied?—Enserority of tecuse closely. There are a few cases I know where the tecure is enrual. In some cases, it is

30697. The lendbode thick it may always be possible to put the place to a more profitable one—Yes. Destinging with the aroundments which I finish outly to be made, it is obligatory on the part of the amittary authority to place upon the register any man who authority is place upon the register any man who shouss to apply for registerion. This school, in my opinion, be altered, and a quatern of ferenting inter-stood instead. There might, of course, be a fear that such a system of assume would be harried; such a system of assume freezemen would be harried; sattractived by the convoiding authority, but I do not think its would be difficult to subgraped the interests of the total, areas of these means were the feet of the total. net think it would be difficult to adaptated the interests of the treds, would there were any such rick. It may be throught that such a system might be used gravitally to exclude early-engine to urbon seess. On the other hand, I am of optime that where there are facilities for control, and the gravital occilitions, see sufficiency, sow the control of the converged. I am sufficiency, sow the gravital occilitions. further of colories that the sub-section which provides from registration for such persons as sell multi from their own cows for the approximation of their workmen or neighbooks should be deleted, as there is so reason why such cattle should be exempt from formed by the Datries, Covaheds and Milkshops Order threid be comprisory, and not permissive. I further Sink that the power to charry out such regulations that the transfer of the course consuming and not the smaller boards.

20600. Would you be disposed to go a step further and have those openedla centrally controlled us order to ansere uniformity of administration? - I do not know how far you mean centrally controlled. 30029. Well, it is surely underivable to allow each othority to set up a standard of efficiency for liter

attinguity to not up a manuard of emission or seen. There should be some common regulation which would apply to all vendors of milk. Should it not be mediatory on local authorities to enforce such uniform conditions? -That I might agree with. 50050. Till such a provision is made, does it not seen Herly that in one district you will have a proper

standard of efficiency, in a neighbouring district a lower standard, and so a third a missrably inadequate standard?—Yes. We must that every day. 20701. You do. But if the same standard is to be metityted there must be some controlling body sould then be relied upon that the same

could then be robed upon that the same conditions were being indirected in outer and in centrel season. Understandly of reportation and conditions are assemble to the conditions are assemble to the condition are sense of the conditions are sense of the city at directed oblidy to the milk from valuely, and, so I stated endity, the power under which the work for centrel color or eith Milk Clagars. Michael School, the condition of procedure stopped may be energy senserow. On ethy, of selfs supplied by farmers residing outside the ethy, and sont in by either rail or road, are collected in special outfits provided by Professor Deligine, by the special duting processes and represent Diagrams, or an Food and Drugs Impector. (Outfits produced.) The Impector at the time of collection obtains as much information on possible, and fills up a form for each sample collected.

SOTOR. Mr. Campung. -- Does he take it at the farm? -As the railway station. We try to collect the milk before it has been bouched by suyces size.

30003. The Chairman—New sea not solliged to wait
for Sessionar, you simply have an order sugread tills us
collinary summons by a residence of the peace. New.

30004. Too go to a reral district and to a pusition of
this peace there. Have you were been refrained —Xea,

which were refrained, but, at source, there are other
which were not seen of the cases of refusal have been rating stations. Some of the some of refused have been manu-bal, the people implicated bappening to be relatives. 20703. De pos even have recourse to the observable texts—Very gashy. We find best we have to get the permission of the former in the first measure to opply 2, and it is not resulting given. Practically, X fool that in bords of considerable size you can very lifet feature.

in first of consumer one you are try owne nonce your object when you have applied it; you get such a large percentage of mantions.

50006. You would not be of opinion that every SOUGH. You worse not us of openion was every animal reacting to the baborolin test would necessarily yield milk that would be a danger to branz beings?— Cartainly not. The samples of milk taken as I have sciality not. The excepts of milk taken as I have surfied are time to-copilt to the tabornissic depact-cent, and the inspectors' forms are repost, and situative effice numbers are placed on the forms to examples are than sunt to Producery Delinies, who solumits them to the biological test, and in the course of from 24 to 25 days, reports the result of his engaging tion to the medical officer of health. If a particular to the biological test, and in the course tion to the medical officer of health. If a particular sample is reported to be toberculous the medical officer sample is reported to be tobercubous the modeled afforce of health, or his representative, bearing his substitution for health, or his representative, bearing his substitution in writing, accompared by the visionary suggeon, proceeds to the form, hearing sink obtained here. In the contrast of the cont the velocities of the understand another of the understand imposition of the understand, and if a cow having only ampletous symptoms is found, a sample of the milk my procured in a sterilized overfix, careful record of the proceeded in a seement owner, carrying as any as assumed to a supported our or cown in made, and this sample in soon submitted to Preference Deliging. In many cases

such cow, and refrain from anding any more milks from her, but in every case the clinical emmination of the veterinary officer is confirmed or refuted by of the votorinary officer is confirmed or refitted by the becamiclogues, so that there shall be no risk of mistolean diagnosis. This role as to confirmation by ministers diagnoss. The rece as to commence by the hesteriologist has been nightly self-sed to. 30707. Of come. It is a question when it does become open tobercubuis?—Tes. I faint it way often becomes open tobercubois leng before it is diagnosed. becomes over whereteness may be a consider that some of the hought into an infected form will contend the disease through total trought into an infected form will contend the disease through total trought into contend the other contends with other contends of the contends to the contends of the conten but I should say that a considerable percentage will.

It is possible by clinical diagnosis to any that a very grave application attaches to a certain new or arms, and

the furnour is notified of this, and represented to isolate

50700. Sir Stewart Woossonus.—You quesider that a own xary give buberouless milk without having buber-calculate of the udder. Have you had say considerable properties of cases where, with apparently sound olders, the cours have yet given tolerevalues milk?—

Mr. J. W. Burrestown.—Fit November, 1919.

We have bad a small proportion of cases which have given subspections multi, billiough sider learnes were not appared on palphalae. Zeld in all these oneses we also provide the subspection of the subspection of 800 h. In: the widers—Lee. It should be unitested, of course, that in some cases a considerable inferred dispute between the taking of an initiation marple and the shoughts of the cover-concretence as

scarpic and the Mangaire of the norm-conceines as large as a range in the superior of the corrections as large as a range in the superior of the intense from some root region in the character diagon of the dissort-True. In case case as to income consistent of the intense from the contraction of th

Switches also contribute a switch interest, and control and control and an also contro

According to the control of the cont

Sold it is theoreties, and the record for filters by the control of the control of the control of the original production of the state. It now the original production of the state. It now made that of broadly editing thereties and it now made, that of broadly editing thereties and give difficult of the control of the state. It was reappeded at the proof of the filter at it is native of gene difficult, and the control of the control of gene difficult, and the clean is being at an interest of gene difficult, and the clean is being to see the control of the control of the control of the control of gene interest, the control of the control of gene interest, the control of the control of gene interest, and the control of the control of gene in the control of the con

under. But, as a metter of fact, the tramber of neithbasions received each year has been infinitenrial. In many cases where notifications have been raide : have had the impression that those who made them way to be suspected of teberoulosis, they thought they might as well notify something and keep themselves in the good hooks of the Manatonite It has been pointed out repeatedly Switzry Anthority. to the furners that the Corporation desire to co-course. to the formers that the Corporation couldre to co-operate with the producers of milk to obtain a purve supply, and that they would make moder formers to notify ever the most unlikely conditions rather than how to proceed in the manner which they have to adopt to find the sources of infection. But it has all been to no purpose. There is no doubt that the infection to my surpose. There is no desire that it induces a spiritheral institute of surposes of affective a spiritheral institute of surposes of affective notices in largely respectable for this. Those can be little decis, cities, that if this notification closes last loves respectable to the most control of the control of the surpose such is now the control of the contr great amount of work rould have been done to model greats amount of week needs have been dear to needs jummer. In place of side, what animally laysyers is that many farmers, on the mercet suspector, dispose of new which many be the subject of the most breign conditions imaginable, and in many cases at no incursalenable loss to themselves. There can be no doubt that in the early days of our operations any animal, however emeriated, however dressed, so long as the qualit prolony milk, was regarded as quite good enough. It was rare man, was required as quite goot contain. It was rare, in fast, to go to a ferm where the assimal presenting marked signs of disease could be found. This is now changed, and it is now put as man to find "clock" sameable as it was common in former days. This improvement, I am bound to say, is almost entirely, if now solid; due to the operation of our changes, and justified the money spent on their administration. 30713. Mr. Camponia.—Before you leave this object, I gather that, as a result of the operation of these clauses, the herds in the exentry from which you draw your talk supply are now composed of fairly good, healthy caltile?—Yes; on the whole they are fairly

good, healthy esture—next; on the music busy are angued even.

SOULD, I suppose what has lappened is that the farmers have sold taker sufferer stock to persons excepting other districts where the administration in a wat to rigorous as it is to Machesters—That, I think, it quits a unitard excelssion. Of course, this instead to the district of the farmer and the sufference of the sum of the sum of a rowing spon. The in quite a unitural concession. Or course, sum messay It have been speaking of its not a recent con. The ingrevenerest of which I have spoken has been apparent for some years. But its the first instance there "weaters," these "wints minima, were undealised!" western, these sures witness, were instrumently and to other districts. If necessary, I can give you a case to illustrate the way in which they were suspend of, at access out of the investigation of a very unautifully of milk, part of which came to this city and part groung to a big city in the Scoth. The number of cows countried was even 5,000, and I countried these over exemined wise over 0,000, and I extensive these on 135 farmes. As bording on your exception, I will, with your permission, read, a stord critical from the report I then made: "The total manner of communications of the volter was obvious."

I was not intuited by the kines wembers do not reproved. subrang from inherentiats of the rather was derived anything from the control of the rather was derived anything fitts the seriest numbers do not represent anything fitts the actual randors of one settlering from inherentiate of the rather than were present in three tenders of the rather than the respective fitters to commerciate in the rather than the results of new lasts at commerciate in a fitter in about tweet fast in owners, the results of the second of the results of the second of the results of the second of the results of the second of the results differing my term improves as april and many, interes-commerced to examine their cores more convinity with constructed to exacting while some interes convolute waits a view of disposing of sampleines selfmain before ony and the selfmain of diseased earlier, retently common and common of the selfmain of diseased earlier, retently common and common of the selfmain of the sel also had a cartain amount of ocche pecal, for the catile market, which was hald every Wednesday, contaked many poor writches whose sarons value occas hardly ropey the owner for the trouble of having the heast herego's in and submitted for exciton. That these was a considerable trade accurally in slink cattle the control of the co this, and a core southerny to use the use two years find entry preclusees. To an interested calcular, like myself, there appeared to be a small ring which was all too apt, at the bidding of the unwary ortains, Now suppose the Park of the contract of the co

week his proposition.

The state of these sections is the state of the

sense implicated as they are sufficiently well-known to most people. Checking, as a county, has been persumment for many generations as an important certain of the dairy industry. It is admirably adapted for the

purpose. His pentures are excellent; it is well supplied

with ample water, and it has realway furtition for the anti-relation of its repolates to the large continue of proposition made as or possessed to four design contains on the control of the control of the proposition of the proposition of man fair has been specialled entired by the proposition of main fair and proposition of the proposition of the control of the control

Mr. J. W. BRITTLEBANS

sent as tuboperdoos mills.

37977; Mr. COUSELLA-That is the swrenge for
Cambine 8—That is for Chambre shows. During this
protein, in inflaving up these tolerandoos millie to their
outgot, 4978 cown were examined, and of these 387
per cent, were found and proved to be sufficient from
tolerandous for found and proved to be sufficient from
tolerandous durings.

37118. Productions Murraux.—6.3 per cent.t.—Xee, of
37118. Productions Murraux.—6.3 per cent.t.—Xee, of

Service Means of the control of the

Taxue showing number of core exemined on farms which had been found to be sending tuberculous milk.

(Figures in brackets indicate accorder of farms).

Year.		Cheskins.		Deebyskies.		State.		Lunes	obire.	Salop.		Yorks.	
1902 1903 1904 1905 1906 1907	::	(25) (21) (21)	Cown. 480 589 356 605 600 540	Patem. (9) (7) (5)	Comp. 162 133 95 134	Facus. (1) (5)	Orms. 18 25	Farms.	Cores.	Farma.	Cows.	Perus.	Cores.
1905 1906 1997 1905 1909 1900 1900	:	25.000 CERTS	606 600 540 300 300 323 703	9555555	134 844 60 38 160 190 38	(B) (B) (B) (B) (B) (B) (B) (B) (B) (B)	150 150 54 150 57	988888	19 58 48 40 16 20	(i) (i)	24 50 - 20		- 18
Totale		(\$85)	4,929	(16)	1,110	(38)	709	(15)	296	(8)	193	(1)	19

p e

Mr. J. W. Barrenanaus. -- 7th Neuember, 1919.

TABLE showing ratio of behavelers come to cover examined (reside Manchester), on James proved to he modium telescopies milk.

One One	Year.	Chashire.	Dechyahira.	Staffs.	Leacestire.	Saloya	Yorks.	
10		Gres. Per cent	Com. Per cent	Cown. Per cont.	Cown. Per cent	Cown. Per cont.	Cown. Per cont.	
100 100	1992	(19) 4-22	(7) 4-90	(1) 5-05	(1) 5-55	-	_	
1666 167								
1666 167								
1666 167								
1666 167								
1000 (0.3 3-06 (3) 3-0.0 (18) 32-30 — — — — — — — — — — — — — — — — — — —								
1911 191 4-68 (1) 2-63 (1) 1-31 (3) 6-26								
1911 191 4-68 (1) 2-63 (1) 1-31 (3) 6-26								
1997-11 4-17 3-27 3-27								
1987-0 :: 5-87 2-98 3-07 = = = =								
1995-11 4-17 .3-81 5-77								
3-07 3-06 5-00								
		2-87	3.15	6-63	-	-	100	

I have some other figures, concenting enter-order before areas of open-times, which may be of value to the Occmission. The figures I have aboutly quated rater colltic bases terms from which stoody quated rater colltic bases terms from which stoody are the second case by our form various causes, and I find that during the some on years period, for that mankes of corns these, 288 were found to be sufficient for the conlates. 288 were found to be sufficient to the continuation of the sufficient property of the con-

as the salary, group a percentage of 1.10 of cover estillating from coherentates of the tables. He can arrive the street are Wecommune—Whether as former from which street and multi-corn or not 9—Tes; that a contract the street are contract country can be a contract to the street are contract as the street and the street are no located from the contract, and whether we are located for the street.

when the second rest of the seco

2072. M. CLUTTERA — I there has, it describes the secretary controls, you remain a pile, secondary, and weeklings, in the secondary controls, you can be seen as the secondary of the secondary. The secondary is the secondary in the secondary in

80728. That is to say, low than you thought adequate?—Loss than 690 cubic feet. 2072s. Would you sak for 600 in the country?—Co-

"50754. Would you sai fee 600 in the recentry!" Century!".

50731. Trees represent the crewited was well work.

50731. Trees represent the crewited was well work.

50731. Bot I want to become what you, personally,

filtin?—By present wire is full to command you for

be passed in the country, or strywhear stee, will rathe

content to the country, or strywhear stee, will rathe

content to the country, or strywhear stee, will rethe

content to the country, or strywhear stee, will rethe

content to the country, or strywhear stee, will rethe

content to the country or strywhear stee, will rethe

be passed in the country, or enzywhan cles, with ruble accommodation per one less than 600 that. I grafar more than that, even in the country. 3077. Bot, assuring that the verification was all vight, would you occupe 6007—I should occept it, if I could not got are more. I not say rate?—I should have to a very me and the country of the country of the laws to a very man. But I is not law very much

50738. Yes versil pass it, as any rate?—I should have to, I suppose. But I do not lake very much bore to all suppose. But I do not lake very much roote of the no-celled outle serie, so long as one can see that the series of the position of the first the lake of the position. It before the late of the series of the government of the control of the series of the position of the late of the

your covaled will not be very high.

ROTAS, Quite right. Now would require, I take it,

\$1 both for each cover—Two, the regulations up \$1 and

\$2 both for each cover—Two, the regulations up \$2 and

\$2 both Very \$2 both is \$6 for the 10 \$2 fast into your

\$6 square feet, which you not lot, would give, my, a

which of a little over if feeth—Two, where each you

think of 10 to 1

the nan-value of the Decrease.

EUTEZ, And how much do you sak for 9—An average
of 7 due to 7 feet 5 inches. Then we sake 2 feet
i inches for the dung chemical, the remainder for the
walk habrid.

EUTEZ, You cannot do with less than 5 feet behind?—
We should have; 4 feet 6 inches we say, beyond the
subst 1 have given yoy.

20754. 18 feet you say theo?-Yes.

20758. You cannot do it in less, if you are
going to have a food passage?-I regard a dood passage
as way missatis), bob so result for feeding the cove.

on may minerally, not no much for feeling the court, but se a factor in wentlinties.

36750. The Crumman—Tox do not like the own to be ted up against the wall N-No.

of the control of the

Mr. J. W. BRIPTLEBANK .-- 7th Nonember, 1912.

not only keep the now to the bad, but we keep her very grach cleaner. I must conclude that, while the low rells in front were responsible for a great deal of low raits in most were responses see a great cets of the diet can found in the covaried; the norw were deaper in some of the old covarieds, where there was no feeding passage, than they are in some of the modern their, where they have feeding passages. 20758. There is the difficulty of getting the food in 1-We have a chiling board to the manger.

39739. I think that is absolutely necessary. But, on the other hand, if you have a solid partition in tent of the cow, you are not much better off. We see from of the cow, you were not much better olf—We are surjust to abolish and boil perficients in the shade, even between the cows. We are strying to get them to yet or yet a keal to be with a cross call to the head post, the being and the companion of the companion of the the beingmail of door, such to provide a free christhical stang has fleer of the shed. It was speaking of the ingrevement that he taken place in the Charlette constant, and I short! Blue to add than thring the lite. give years the goastest assistance has been received burn Dr. Miredish Young, the Medical Officer of Realth for Cheshine, who has taken up this question great chargy, and who has always been ready to ar sectstance. There is no doubt that Cheshire is condar sesistance. Andre is no could the common a lapproving very rapidly, and in a few years the results of the work does should be apparent. At the outset of the work does should be apparent. At the outset this county had a very high percentage of old some in this corruly had n vary high percentage of old seven in the bords, and if wants no expensioned cyn to see the change that has been golde on from your to your. But, of source, to obtain the proposes request, much re-tine regard to the percention of difference. The Coupty of Delphyldre, I may say, as my innoventions show us, is sinced wholly bud, in so for see the state of the cover-shed is to exercised. The very status of the effects of the contract of the contract of the cover-shed is to exercised. The very status of the effects of seems to have indpeed the farmers to believe in know ing their cowe in duk, hot, overcounted shedsing their cown in dust, but, errecorneds thatch. The sums applies to many years of Silondricher effected by our operation. More times otherwise however, the our operation. More times otherwise however, the concess. I shall point out how that the figures it require to this county are most trialending, no whole dimensis, which such to near milk to Manchester, have directed their neppties in other directions, principally when the control of the control of the control of the state of the county of the control of the county are have the dust present of the coverts, and solids hadding in her years rather of these coverts and solids hadding in her years rather of more dust the shall control

work such as washing almost impossible. 50745. Esfore you know the cowbouses, what about the floor, what do you say shoot that?—We insert on an impervious floor, and in every once we sak for

\$0541. Even under the leases you find no ill effects?

—500. So have not had complaints that odd con-crete was responsible for trouble in the quarters. Heavy our cert tried any other kind of flood—Nes, we have tried supplied clay, closiers, flags, all sorts of forces, with the position enception of pration sets, and the conduction I have corne to is, this the best material, justicability, for one purposes in commut-ters in the conduction of the computers of the commut-\$6745. Finished rough. Here you had any difficulty with the acting?—Some few man used to do the skin

with the acting-Bering few ment used to do that this ring with a size altimate, instead of a rought woodsto-one, but we taught there that those flower could be made perfectly impervious on the rough principles, and then we began to get which we were affect-count allipting flows. With one of this flow flower was completely without allipting the princip affect the place was completely with the perfect of the perfect of the rest of the wear woman one of the count full dream, and the task sides was woman than the fret. 30744. Now is to finished with a wooden stammer

in spores?-Yes. 50745. Parallel with the cow?-No, diagonally, to no the cow a grip when she gots up. A few words give the our a grip when the point up. A few words as to the breefing and seeing of crosses shot may not the charge of the control of the charge of the transport of the charge of the

that the extract was to be given to the celves, or that they should have the privilege of smalling such as redder? I cannot too through conform the almost general neglect of the certy life of celves. In Durby-suirs a particularly represented to system is in vagor

since a pointenary representation system is in vagine of sign grane, colored, to whom he ways control of bandling provide is satisfy and flowly all, an assistive statisfy and flowly all, an assistive statisfy and flowly all, an assistive statisfy and colored and are all the statisfy and are in any later that at least at severy force withink to offset is rapared in better the energy some withink to offset is rapared in the type to energy some withink to offset is rapared in the type to energy some statistic and the state of the statistic provides and the statistic provides are statistically assist to provide a statistic provides and the statistic provides and the statistic provides are statistically assisted as a statistic provides and the statistic provides are statistically assisted as a statistic provides and the statistic provides are statistically assisted as a statistic provides and the statistic provides are statistically as a statistic provides and the statistic provides are statistically as a statistic provides are statistically as a statistic provides and the statistic provides are statistically as a statistic provides and the statistic provides are statistically as a statistic provides and the statistic provides are carry col. It is gratifying to know that not a few have pecified by the action given. I can quote on amples of this. Heat of the milling is now done by mar, and it is comparatively seen to see women millions. The reasons for this case how well known to dishe upon. I have nothing to say in favore of many of the millions seen. It is true that most of them with their heads before million, but with dirty or the frances soon. It is true take most or than wash that bands before midding, but with dirty clother, and daily labria, this might appear as almost scalars detail. It may not be out of place to draw stigntists for eals at many of the markets. Many could be specified where a large number of gaths,

soon at speciman worse a large nameer of table, industrable in avery respect, one exposed for sale, and find a ready market. Yas point I wash to bring sefore you now is some work which we are carrying our find a rendy market. in connection with the see discretion of intercolorie—the secular of a hard from from the discrete. We have a in connection with this serbination of inherencioni—the imaging of a hard front from the inhance. We have a single property of the control of the control of the control of the companion. We have a positive should be control of the Companion. Some years age is was desirable that a special confidence should be about the control of the c attempt to servy col such condition. It the op-point of our reporting we had some difficulty objection of our reporting we had some difficulty objects this work, and we entered upon this condend in 1000. It is not such that the object is not to the firstly slage one, the number verying from 90 to 110. It have figures for the test of this hard horse we shall be suffered to the condition of the

would git a tribeculture free bail. Oction decon-tage principles were neglected, and at a later princi-stage principles were neglected, and at a later princi-ular to the stage of the preventing of residing when the way to be a later of the stage of the stage free, He was noticed that the first assential was to get his commission extend, patting a meeting person-ting of part under 50 per cert. In April, 1964 I took was the stage of the stage of the stage of the stage was retired. I stead the stage of 27 anisonia, and the member resolving was 17. I field mently with the herd proper, and not with younger azimuth that we added to proper, and not were younger attends this we assume up the heef. In Getcher, 1903, 91 over were tested, and 11 reacted. Every precedition we could think of wis taken, in the way of keeping the place plans, and wish 11 cover reacted. "Even or three days after I got the 11 cows reacted. Two or three days after I got the permission of the Chairman of the Santiury Committee to take plenty of men from our disinfecting sisting. and we set to work to disinfact every building on the farm. This was deep with common chloride of lime

50746. Am I to understand that after each tort reaction arises were removed?-Yes.

\$9747. So just after your test they were perfectly free?—Les. In October, 1905, 98 nows were tested, and one exacted. From that period canward we shall never had in this hard more than one or two reactions. Bug to exact sources with this hard we have had to Nyide it into three branches—(1) the hard proper; (5 division it into these communication; in a first proper; ix prelativistary uniquals tested cone; (3) prohibinary scrimals not tested at all. What we do now—and it is a scores of a great deal of our security—is with regard to probativistary uniquals, that no animal is added to the probability beamen, see to seem to serve, met less the till she has been tested twice at intervals, not less than one month after the first test. We still get a hard till till the has seen seroes some to little than one month after the first test. We still get a high percentege of reactions from probationary arimals, after on the second test. The following takins may often on the second test.

Tests III .- Showing the result of tobercolin testing on farm specified.

Animals having hern previously tested.						ly teeted.		PRORATIONARY ARIMALS. Animals not powicinly tested, but purchased subject to passing the test.					
Number tested		26) PE-	Number re-sourg	Number persod	Doubtfa re-action	Non-	ber ed	Number re-acting	Number persed	Doubtful m-sotions	Azrimale peacing test.		
	95	Γ	17		51		,	18	1	11		96 90 90 90 97 98 98 90 181 96	
	91		11		80 96 20					6			
	98 76 87 87 86					1 1		10	10				
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	85		î		54	1 6	1 1	57	34	- 3	ő	99	
	91		1 1			0		16	9 8 34		11	11 0	

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9		84	the of	the free	Peterk	be of	Sold or nat- traced.	Eted.	Caronas	Pertian only passed	Con-	abe also	0 to 40	the first	per of
_	_	N I	Ners	83	No. of	203	_			_		2	O Life	1348	Man and an
1905 1906 1906 1906 1906 1907 1908 1909 1910		420	345	30 45 29 47	1,235	31 16 30 30 31	1.5	-	8	-	11	16	1	2	54
19.0		432	329	63	9,837	25	6		- 6	-	14	10	1	-	20 20 34
1905	::	764	355 565 543	29	3,241	16	2	-			12	14	2	1	2.0
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1909	831			36		31	- 1	- "	ĭ	1 1	99	24			20
2700						24 45			- â	- "	19	24			22
2911		888	694	- 50	0,893	46	-	-	9	4	14 13 23 19 33	44	-	i	25 48
Totals		5,432	6,647	333	27,904	288	4.8		63	15	355	231	10	10	306

*A member of these coun were found under special circumstances.

99748. Professor Marrian.—You don't think that one application of the tuberculin test in sufficients—Not to ensure freedom. I look upon it that you have, to ensure freedom. A sook upon is then you nave, possibly, an insubstion period, in which you may not get your reaction. We have attempted in resent put year reaction. We have attempted in recent years to shandon the procedure of purchasing outside estile sliepshire, and rearing our own. Ninety one head of cows, helfers and onlyes reared on this farm here been tested with no reaction. We did not here

rearing till five years ago. 30748. Mr. CAMPRELL.—Here you brught since then?

We have bought very little in the last two years.

Up to that time car difficulty was from eyes se did op to this time our children's was most cown we did not want to pass the tent. Non-profitable cown passed the test, and animals that you wanted receive. Them is also a difficulty in getting bulls free from teberon-losis. We charge these bulls very often. We have one stock bull, and one young bull.

is living anatog others. In strates every case where young builts were submitted to me, which had been tied up on Cheshies farms with the cores, they failed in pass the test. 60797. The CHARLES — World you establishe that to the probellity of the tyberricus grams being greated in their systems, or to direct infection from the court —I think the latter is the explanation. I am inclined put infection so the ocusa entirely of the speed

toherroiceis. tubecularia.

39752. Mr. Cavrenza.—From infected animals*—Free indection in the cowded. Finally, I may receed that in not a single instance has one of these homerored critic reacted in the reacted in the reacted in the work has been confused on a communical basis, and work has been conducted on a commercial basis, and the only assistance given to the favour has been free to the conduction given by the favour has been free to the conduction of the conduction of the head of the conduction of the conduction of the head it is no unequestionable here great. The incidence of disease, where then tubercolors, has been anormously disease, where then tubercolors, has been anormously 20750. Do you dreed the reacting bull; would you not dreed the reacting cow more?-Tes, because the

reduced, to specify only two conditions—spinneds advagen, and personnels. Postmonous has periodically disspaced. Bytacation shorten was extremely rick as the hard, and that also has disappared. But we fell take the most stringent protections against the introgation. I have entitled to study that the they extremely against the condition of the their the systemses usine the correlated were first distinction, and most large Versanto.—What do was distincted with

2000. Lody Evrasion.—Who do you distribes with?—A shircitated lines obtained.
2000. Earn offices do you chiefelt on the particular
2000. Earn of you distribed.—As the first instance
2000. More of you distribed.—As the first instance
a was done by hand—Tark's hood heather—hot rebagentity we prombound a gonying sauthors. It has
lean is use over sittee, said this work hes been deen
2000. The barroom of your consider subplant
of opper solution is useful distributation?—I should not
copyre solution is useful distributation?—I should not
copyre solution is useful distributation?—I should not
copyre solution is useful distributation?—I should not

ATTAL LOCATION CONTROL TO CONTROL TO A MANAGEMENT OF THE CONTROL TO CONTROL T

period to the service of the service

is differ. They are goint as had in the open country as fore; see in the oldy-1-4 sheading with the table? The open country as the continues which exist an Estechnist control of the country of the coun

er hire the fight and mending she to all by high wells. If No. 1980, he recoprise of the sentil crewised in the center of the othy which I have consistent on any core before they are not out to the farmers.

If the continued to form the continued to form years before they are not out to the farmers to remain there for a system perpect. Perfect the trends there for a system perpect. Perfect the trends the sent of the system perpect per the perfect that the sent perfect perfect the sent perfect perfect the sent perfect perfect perfect that the perfect perfect perfect that the perfect perfect perfect the perfect perfect perfect perfect the perfect p

heaver, he share much has been absoluted in this districentral conditions of the supple and shared a large section of the supple and the su

might have been conductedly introduced with contigons shoutine. A regulation way string-supply applied was that the core must be removed bream the sheek before his aborted, and if the converse did not find her bewar made to conference that he had been guilty of a stream fault.

30703 Ludy Evenaux.—Do you think the favour realism have morison this disease in 27—Tex in meany

orion Lary Evenante—10 you thrue see instruct resists how serious this densite is?—Xes; in meay pleans I think he does. 50770. And in many places he does not?—In Cheshive, partivitarly, we have a wary excellent clear of man who realises the selectufic aspects of a good many of these conditions.

19971. The Champan-Miles the Increased cest, if there has here to increase consuprant on the importation, current cuts by the Meanthewire outlendby, fin any way increased the pure of multi in the city?—I can knowly answer what with prediction. But my impression in that the cost of the openitions has not knowned the price.

The construction of the openition has not knowned the price.

The construction is the price of the contraction has not knowned the price.

The contraction is the contraction of the c

Mr. J. W. BEITTERBANG,-Tile Nove

assure that with previous. But my impossion in that the cost of the operations has not increased the properties of the operations has not increased the 2007. Whatever less has arisen has been been by the criffs retained or the confineration of that. If that me only the criff retained exploration of that. If the area or oppy was a percentaintly due area, set habits to correspon the contract of the confineration of the contract of the contract

returning, it is immigration train process Margin cares there are no cases, yearly continuous debens are no cases, yearly continuous debens are no cases, yearly continuous and service. In this the price has been keyl zones or less at the sample, that the price has been keyl zones or less at the sample of sample of the sample of sa

to the concurrence, consistently as their production in the concurrence, consistently as the through a mith design — christic that they can excent ?

100777. Yes.—With the conspision of very for cases, it is not his treety of the tought design.

107778. It may of it tought to by read?—The formans over mill that the confident of the city of generally have their constitutions of the city of generally have their market production. The confidence is not the confidence and this control is consistent of the confidence and this with the excessors. Not might very that it mapped from 944, to do the green constitution of the confidence is not the confidence and this constitution of the confidence is not the confidence in the confidence in the confidence is not the confidence in the con

with the seasons. Not might say that it magas from \$100, \$1, \$100

car no in or displaying the discounts to large 10, who have a 2000k 3 yet to be a to country at 11-10, yet to go at 2000k 3 yet to 11-10 yet yet to 11-10 yet to

amentanes—not 1 and way from usus.

30/897. Are you oblight to have recourse to prosecutions to enfector the provisions laid down by the distribution of midth—Test consistently.

50/83. Do you none-there treat them in the same way as you treat the milk producess; that is by surmorning than to appear before your Beatley Committee (Tables).

2002. And you rely to mark to moral souther a see the power of the law — Andreidely macrossystem of the power of the law — Andreidely macrossystem of the market of the contemporary of the law of the

MORR, Is in not motertal. My object is only to secretize whether yes first producers, who in the first a fixed amount for a certain quantity are willing to probate lefter rulk under extremely strengest ourditions, and sell is at the ordinary recurrencing practable to the contract of the contract of the conlater of the contract of the contract of the conhave no differely in quitting playing of trainers.
4 5004. Inshalting name from people, who do not huppen to except with the stringent conflictes tails down?—That is no. I may add that we have twice increased the prior fixed by the contract to be paid to successes we price mean by one common to be paid to the mean who supplies the mile when the ordinary rates have gene up in the whole of the sees. 50756, You have not laken advantage of the price fixed, so as to hold the man to it throughout the three

Mr. J. W. Baurmanaux,-Tth Neueraber, 1912.

years period?-No; not under the circumstances I have mentioned. The idea of the Sanitary Committee has always been that you must pay a proper price if you alrays som tost you seem pay a properly ward the thing properly does.

\$7750. Who controls the taking of exceptes of milk to test for eduleration?—Mr. Rock, the Sanstory Supermisedent.
S0797. You have nothing to do with that?-No.

am called in cometimes in connection with special invariate, where whole batches of farges in a periodist

80799. You have nothing to do with the quality of the milit?—Of course, I know a good deal about it, hot es it is not in my department I am not prepared to hole at the most many ways.

See Man and the supplication of the tuberSee Man and the supplication of the tuberseed to the supplication of the tuberseed to the supplication of the tuberseed tuber and tuber supplication of the tuberways useful feeder in determining whether there is
were useful feeder in determining whether there is
were useful feeder in determining which the wife. recy usure seems in distributing whether there is tabercolous in the animals yielding mile. In what proportion of ossess here you here able to follow up the test by post recrieve examination, and result been as showing the reliability of the test?-The result been as showing the reliability of the best?—The proportion of osses as not e very beep one. But we had a port morters on all the resting enums is to be partitionic lend I have species about 15 followed in all ferty-seven of these resulting unitseds to the butcher and foods a pert versions. In only one one was I could foods a pert versions. In only one one was I could be find tuberouleus indexes. I will say that in common cause the lactions were extremely slight. But in

only one ness was I unable to find any et all.

Sidd. Protonor Margan.—And you would not him
to swear it was not there in that case?—No; I would to swear it was not there in that (cast - No; I would not. My superimon of the rise is that it is the best motival I have got at my disposal, and the superimon of the rise of the superimon of t

sion, and I tested her, but I got the reaction every \$0804. How often did you test her?—Every forinishs. here wee another cow most remarkably affected, and

50006 Lody Evenam - Is Dr. Niven the Medical effort of Health for the entire area? - Except Officer of Health for the entire area?—Except Withington, where there is a District Medical Officer of tiletic. Tou are the veterinary surgroun for the entire orbit?—Xes. 50907. I think you said that licensing would be more efficience than registration?—Yes, I do.

efficacions then registration.—Tes. I do. 3999. Do you also consider that hy-poducts, such so bettermille and sheers, should be under the same registration as proposed monomic registration as product in bourse, that are not creatly better can be read in bourse, that are not creatly action—I think the sill product intended for human consumption should be put scott the same consideration. 50800. You also said that in your opinion the Order should be compulsory, and not permissive, and that is should not be left to different caption to put it info operation or net?—It should not. 30610. Professor Mayram.—Manchester has the power

under a special Act to inspect the mik of any eras it it comes into Munchester. Have you to notify the medical officer?—No; we go shedutely as a surprise. Whitagut refreence to the local authority? We have often been saled to agree to notify the medical officer, but we have never up to now agreed 20012. Have you had many cases of typhoid carrieus?

—That would be for the medical officer.

30813. If there was an outbreak would it not be beneficial to the administration of public brailfs that the medical officer about have the power to go into a dairy and make every person bandling the milk submit bimself to the Widal test?-I don't think our medical officer would have any difficulty in doing that.
30314. But in all cases, if you had reases to think
the rolk was producing disease, it would be well to get all those handling the milk tosted?—Yes.

30315. Saldeed is under a different ediministration.

Do they follow the name line?—Yes; absolutely on \$3816. In going down to the country districts and following out these casts, do you find that the farmers

occurring our some casts, do you that that the ferraces offer any objection to your gauge to those places?—No. 38817. They don't welcome you with open arms?—No. In the seely years of our openitions we met with a good deal of unpleasanteess. Not actual opposition, but in shape of being withel women. good deal of unpressurences. Not status opposition, at in shape of being called names. 30018. That has occured?—Absolutely consed. 30819. They recognise that it is to their advantage. factors by that they get to know my name and my face. I keep input many times when I so is a farm

they say: "Ch, yes, you have some to see the cove." reliminary urpleasuntness pittle preliminary urphesonateaes.
3850; How for do you go into the centra?—We go right to the limits from which our milk centra live term of the control of

there is a constant winter supply, the winter supply being affected by people who are chess-makers in the SERRICE.

SECTION.

SECTIO extraors receiver. They also come from York, Cumber-tudous receiver. They also come from York, Cumber-list and Darbyabire.

50925. Hr. Currerra,—And Ireland?—A considerable

occurring from Iralizad.

3863. Tou bare no byres in the instantials neighbourhood here?—No. They are on the cetakaris.

3877. I suppose you go not inspect these oathle when they are out to great?—You. I make them bring ne cettle in.
30828. The Countries. -- You surrelee the same power over them, as if they were in the byon?-Yes-20220. Mr. Canrussa.-What lay architecor have you? Assistance from the senioury Properties and satisfance from the special milk dairy inspector. sentiative frost fits a geomit milit dany imagescer.

2500. They report as to the condition of the house
consigned by the ceitle and the condition of the outside

C. Tolo so his them here so explicit to do with their

C. Tolo so his them here so explicit to do with their

divisor. Of the parts with motive tenders we have
divisor. Of the parts with motive tenders we have
given
in a traple here the parts with motive tenders we have
men strope here. The parts with motive tenders we
per the sound of the their tenders of the three is not

and the task in a registry three pleases reciparly a condition

that the registry three pleases reciparly a condition.

side staff is required. 20001. When you prosonts a Cheskirs or a Doby-shirs former wint in the beel procedure? Do you prosonts in the district in which be lives?—It depends on the resistant of the annual. Large it we common observation, and we here to go be the local pethy annual court to proceed for their limit for held educate against the organizations in regard to notification—we conjuste but discuss—we protected in Manual annual court of the discussion of the protected in Manual annual court of the state of on the nature of the officers. There is so offence of

30652. The CRAIMAN,—No matter at what distances the effective may reside?—No matter what the distance

30.886. Mr. Caserseta.—You mentioned your effects to get the militers to use overalls. Do you message to get them to do it? Do you lesset upon it?...We exacut itself. We sty to persuade them Some of thirm do it, but others failly decline to here anything to do

10654. Do you keep milk records of the farms from which you get your supply of milk?—Yes. Printed image digitised by the University of Southampton Library Digitisation Unit

Mr. J. W. Burrtmann, -- 5th Non-coder, 1919.

\$565. I think you have dready given a siner answer to this, but I want to companies it. You are distinctly come that want to companies it. You are distinctly come flow between the come flow between the come flow. I want to be the come flow of the companies of the come flow. I confidentially us to any flow of the confidential come for the companies of the companies of the confidential come flow. I confidentially support the companies of the confidential companies of the confidential

ij was quote eccodevalde that a oor mulph give nonmerculous milit uilbregih she had receited. On the perceited was she was a second of the perceited of the perceited was shown to be second or the second of the perceited was shown to be second or the second of the must shoughter those core "I—No I should stample to an be bired—on secritime or pasterders that milit before selfing it. I would not be responsibility of letting him soil it is milit may.

geing turn out an your rate. There are not many tested argel in Microbiotet's—There are note:

10.000, Bot it is certain that if they were tested a tary reporterion of the caircain would reach. Now, they are which are the second of the caircain that if they were tested as they reported to the caircain that it is not to the second of the caircain that the second of the caircain that it is not to the second of the second

as the street was not comes point to see participate over, though you have that there are come in the best of which will result.—We do not say we are right in showing bin to sail the milk row.

3840. But he is allowed?—I know he is.

3840. But why should you pushe the farmer for having cryslind the test to find out which are the packer and which are not?—I do not exhall that we

spatch him. We carrast coupel thin to test his cover, fields: But the does test them ye penalties him?fields: But the does test them ye penalties him?fields: But the does test them yet and active. Dut it is must test his sotts and fields a percentage of reading cover. I do not see here his one states are to the penalties of the penalties of the states of the desired of the states of the penalties of the cover would wrate, he does reasonately is use one. But my point is thank incovering that some of the cover would wrate, he does not only the test, the cover would wrate, he does not only the test, the spatch him should the milk from the resulting cover. Do you not kink at a maker rather—but 1 of so rots.

upon him shout the milk from the resulting cores. Do you not think it is rather realist?—Mo if 3 to not. 60485. Well, I think it is. Do you not see that is prevents the man testing his cover's -Most a hit. It is not that which prevents a man from testing his cover. 30446. But if he done test, you tell him, and you compel him, to get the milk from the reaching cover restricted before withing 47—Quita so.

pasterriad before stling is?—Quite ao.

56047. So, therefore, he says to himself: "I wen's
test my come; I will remain in ignorance."—He is
allowed to do that stroply hencuse we have not power
to compel him to bank.

2018; Bet ha har to inducement to 60 H; on the corriery has tacked to do.—I think the Corporation was a tacked to do.—I think the Corporation 50540. Suppose he voluntarily any he would like to test big owns, and get rid of the bad cown. He does test they may not be the state of the corn and some reach. Then you led! him to peaternise their midt—Quite to

1000b. Two over points that he is set going to feel the cores.—Of cores, my dray to the public does not count on finding that a cow its teleconizor. As a public official, and on the generated or public health, I must take core that no thick is instanted from anticular that the core is the contract of the contract of

20801. And the farmer does not know. He may want to know, but it would not say him to know, but it would not say him to know, for the simple reason that you settle then compellating to go to the twother of performing his mining. It is not specified they have been supplyed to the could stop him form having his herd tested, I do not think he would stop him from having his herd tested, I do not think he would stop him to test under early conditions. It is a small flowforth detail.

8082. Although he has to pasterrise his milk?—Scall quantities of 16. 30855. Bell florty per cent, of his hard rescied he would have to pasterrise a good deal?—I do not see much difficulty. If he extend posterrise himself he can get others to do W for him? There are always ways and means.

MOME, Wolf, I should hotely like to not a farmer to approximate the mile as a procedure flow size in a procedure flow size of the approximate the size of the properties of the size of th

come behalt; where he was interester to their interest these which had not, would that not simplify the note of improvious—No; I should not integrify the note of improvious—No; I should not halves him if ha and his. Not come if he had a sturinary sungeou's serificate—I am may eaver for it, had my knowledge of human quatter has not given me a large faith. 2007. Not were in certification of velocitary sungeous? welfacture for the contraction of the contraction of the velocitary sungeous and fl, has do be very one; to swop

vermently singeon as and, one so were easy to wrop
over about from one place to another.

58600 The Ontersaw—From mean you would have
to consistent pool that he servificate produced retreat
to the saws tion on the farm?—That is no. I must'
to the saws tion on the farm?—That is no. I must'
to the saws tion on the farm?—That is no. I must'
to the saws tion of the farm?—Some profits
occounts have been passed for heavier occounts
to the farm of the farm of the farm occounts
to the farm of the farm of the farm occounts
to the farm of the farm occounts
to the farm of the farm occounts
to the farm

1961. I sifely return, occasion to not flow flows access occidents insight up to.
3500. I understand that you have no objection to these restring numerals being intend off and act to find the control of the flow of the flo

pres presidentes — Se, è la la Reyal Eccospi.

8690. Then it your purpose it is condel Manchaster — Vet.

18690. Then it your purpose it is condel Man
18690. The pres have the man power to go in al
18690. The gran have the man power to go in al
18690. The gran have the man power to go in al
18690. When you voist a feere contist the Manobisture

rese that myglich mills to Manobisture, and you find

1861 has not softhindere from your point of view, do

— Three is a Kales not the sum fill change, a very impro
1862 decree (Bab soction 3), Beston (3); i is exactly the

1862 source (Bab soction 3), Beston (3); i is exactly the

1862 source (Bab soction 3), Beston (3); i is exactly the

tions it is the contributed from their points of two contribute is a dozen it shows milk change, a very improtant classes (Sah-section B, Reobert B); it is exactly the same Order which opposes in the Darry and Combined Order AC. In the case of a given offence, when the furnar could be a proceedings on its own account—assistant or the contribute of the contribute of the concepts to be proceedings on its own account—assistant is frame contained be stilly—No, or departs the furnar. All we see do is to go and infram the medical caller, summos below to appear before the Schalley Contribute.

terminus him is report before the floridage Committee.

In the larged Technique Him to see all the See of the Head Committee Him to see all the See of the Head Committee Him to see all the See of the Head Committee Him to see all the see all the Head Committee Him to see all the Him to see all

superfished for him to continuo)—Abscissielt, Ha may get in its assrptishouty under the name of another person, hold we have all seeds of overess of information. Seeds, Produces Afertine,—When multi-it national or Seeds, Produces Afertine,—When multi-it national or its loss of the produce of the consequence of the produce of the produ

Dr. A. E. CRARSERS, M.D., D.P.H. (Comb.), examined.

SOUTH THE CREATES.—To see the Medical Other SOUTH THE CREATES.—TO see the Medical Other SOUTH THE CREATES.—TO SOUTH THE CREATES.—TO

supply of milk from custle finite that the property of milk from custle finite finite many interests of the provision of that Act substantially SOUTA. Are the provision of that Act substantially SOUTA. Are the provision of that Act substantially which are forcer as the Macchaette Milk (Susserf—Mary run on sensowbat similar lines, but they do not be substantially as the substantial substantial forces, there was no tabersal as the size they are pleased.

DOM'H. They confer the power of centric imprecises—

Tet. 20074. Professor Marriar.—They do not limit the nature of the impection?—Not they have reference to their retors, but oveid also apply to say other disease that may be deregerous to heelth. 4005. The CARIMINA.—Mor for lare these powers been exceeded by the Glosgor Public Hauth Authority?—They have been carrieded to some extent in con-

-They have been carretised to some extent in conmention with toberelation content of the toberelation content of the consuggestion when an outboard of infection disease, such as secretarian or diphoteria, has notice in the obty------------, two, the consection with diphoteria, and probably more often in connection with applic somtiment, it wantage has been taken of them. They have

the model is that state.

2007. And how they forgonish enable year is into a 100%. And how they forgonish enable year is into a 100%. And how they forgonish enable year is strength of the start of the

as made in the case of the milk supply to the heavitable for subjecting the estimate so the tubercain test.—I.e.; we do that so part of the controot.

18679. In that why the percentage drops in the case of the hospitals bruth water percentage drops in the case of the hospitals bruth water and the hospital bruth and the hospital bruth as the hospital bruth as the hospital bruth to be the hospit

to the hospitals; they are not in any some mux of the hospitals; they are not in any some the property of the hospitals.

30800. In the milk supplied to the hospitals pastentised N-No; we object to that.

30800. It of think is inderferen with the nutritive properties of the milk 5-I believe that is a disputed point.

point.

Side I hancy I was only washing your own present
option I will be great with the side of the conflow of the conflow

armage with the farmers supplying the hospitals that is should be of that character.

3089, To have it couled immediately it is drawn from the convention. The supply to purification of the purification of t

The country lyrus last 5.7 per cent. of subcreations. The country lyrus last 5.7 per cent. of subcreation of the country lyrus last 1.0 per cent. The braylist lyrus, of surgices, country levels to the country lyrus 1.2 per cent. Surgices from the country lyrus 1.2 per cent. Surgices from the country lyrus 1.2 per cent. In 1911, the last complete from the country lyrus, and only use the country lyrus, and only use the country lyrus, and country lyrus, and country lyrus, and country lyrus, and country lyrus lyrus, and country lyrus lyrus lyrus, and country lyrus lyrus lyrus, and country lyrus ly

30860. Presidently for the whole period the milk raised in the obly was in really force from telescolers that than the raille carding force the country area?— Except in the first year, but then the samples were only 100, as equitat from times their senter in the country. 30880. A very much larger proporties of the arity

controls. A very much larger preparation of the sumcourse from the accusty that of residue is the district, very much larger proportion. The reduction of layers represent the proportion of the Public Health (1997). How the legislation of the Public Health (1997). How the legislation of the Public Health (1997), then the legislation of the Public Health (1997) and the legislation of the

area, where come mere need near and and on near teramen than.

30888. Where you have been chilped to go into the country to determine the conditions nuclear which milk is produced have you met with healthy from country

20000. You have not been cologied to love reasons to a magnitude of our to search representation—both may one; I have been accorded at all gottings a registrate's may be a search of the search of the search of the control unbertiles and to compute with them control unbertiles and to compute with them control unbertiles and to compute with the control probability. No frinted in a tense between the Public Handle Committee of Gauger and the color of entitles of these looks algorithms for the third of the color of the color algorithm of the color best of the color algorithm of the color of the color of the color of the color algorithm of the color of the color best of the color algorithm of the color of entitles of the looks algorithm of the color of the color of the looks all the color of the color of the color of the color of the looks all the color of the color of the color of the color of the looks all the color of the color of the color of the color of the looks all the color of the color of the color of the color of the or the color of the color of the color of the color of the or the color of the color of the color of the color of the or of the color of the color of the color of the color of the or of the color of the color of the color of the color of the or of the color of the color of the color of the color of the or of the color of the color of the color of the color of the or of the color of the or of the color of the color of the color of the color of the or of the color of the color of the color of the color of the or of the color of the color of the color of the color of the or of the color of the color of the color of the color of the or of the color of the color of the color of the color of the or of the color of the color of the color of the color of the or of the color of the or of the color of the color of the color

framed the glavity of otherses, against local by-form framed the grant of the control of the control of the stage that seem completed to price as a local of supported to the control of the control of the supported to the control of the control of the control supported to the control of the control of the control in regard to suffice.

In pagest to suffice the control of the control of the incompany of the control of the control of the control in regard to suffice.

The control of the control of the control of the control of the property of the control of

you are going for use mild it sought to be specified.

The state of th

here shard-need.

New Jahrd-need, which is resisten was a competition of the weights of children fad only on sterilized mile and the weights of children fad only on sterilized mile and the children fad only on the children fad on the fact of the children fad on the fad of the children fad on the fad of the children fad of the fad of the children fad of the children fad of the fad of the children fad of the children fad of the fad of the children fad of the children

113

80696 Miss McNaux.—Was it decomposing or sparregle-Southly file Bebbls. It subsequently had quantized was raised as to the operation was raised quantized was raised as to the operations of a vacque-urized the stopper of our toother. He did not think at worth the case, and we object the president against the stopper of our toother. He did not think at worth the case, and we object the president openpoint sterilization. That was the reason why car children suffered, I believe. shiften suffered, I believe.

30000. The Continuous—Secouse of the prolonged experient to a temperature of that tenger—I think the experience to a temperature of that tenger—I think the continuous c

paythen of the expense been by the public rates?—It was borns on the "common good," which is not a rate, but a funded inventment of the Corporation.

3001. In the "common good "a philauthropic finel?—Oh, no. It would have been been on the rates, but

as a master of book-heaping it was deloted to the "common good."

30022. Mim McNittz.—It was a Corporation inder-taking 5—Entirely, and you can say that it was been saking 1—Ratinty, and you can say that it was been on the raise for proteind jurgeness.

3800. The Grantoux—Tall it has point I wested to be the control of the control of

ependiture was ultimately allowed.

20004. But the fact you mention about the auditor

painting it out had nothing to do with the shandowment of the soheme?—Absolutely nothing. 20005. It was abendoned because it was ineffective

about, it was abundaned because it was inefficient in its president—Because it did not prochance better beliefs than other forms of artificial food. 50000. Size form though it may not have done that, to you think it ensured that these balles were fed on come healthy food; that the relification for two their was less they food; that the relification for more abundant of the side of the side of the side of the side of the president was mall orbigal had not been a terminal for-tunation. of course, sterilized the milk not only of the We, of course, steatised the milk use only of its materiate, but also of its ourseling, propensities. I do not little surging, propensities. I do not little surging, propensities. I do not little surging, propensities. I do not little surging to the acquainted with its as our experiences. IN, Publish, a Newsgain, bitcolored milk, which was sterilized by perceive a bitcoloried, and the surging of the surging

very goting einer of hintuitle sourcy in diazarus. In the miles miles and miles miles and miles

50000. But in connection with your Corporation of the connection of fact, the parties physician who meetimed the matter to me remove the particular to London about that time, and I never had any details

2010. Have you eree traced infection in the cause of diolaberia, scariation, or synhoid terre to the child-rapply?—I think Cheggow is one of the places whose the relation of milk to the distribution of certain platetions by milk was first scalabled. It has been

in individual cause in order to ensure the safety of the ebles books, and what measure of co-operation you save received from the milk-renders and producers?have received from the milliomators and producers— For more than beenty years there has not been the least difficulty with the receiver, they have shown them-sives partley rating to give use regularly. They are the producers of the producers of the producers of have legal parson to get thisse lists, if they return, but they give them whiteve behinders, and may also supply to with lists of the dairymen and features from when they show dair toppy. They can access we asset as the same dair toppy. They can access see to see the possily which follows it the utilit copply in successful possily which follows it the utilit copply in successful and public excitement gate up the conference

policy with a major in the mass upperly in supperly account to me. The children's Gen contents of the contents to the execution of the saids portures. He was a sur-locative of milks and as one as it was to book as to content of milks and a source as the said to be a success of its topply. One of the topolites we have been a sur-terior of the said of the said of the said of the best of the said of the said of the said of the leaf of the said of the said of the said of the property of the said of the said of the said of the property of the said of the sai

whit the farm at core.

3001E. The CHRESION.—Do you presurribe the Widel

test for employment—Most as a condition of employtest for employment—Most as a condition of employments of the second of visit the farm at once. at-awalu in connection with diphtheris. 10913. Do you always find the local medical officer of health willing to carry out this test?—Always.

20914. What power would you have?—Probably none in a strictly legal sense. But we put it to him as a 20913. Antipolition.

20913. Antipolity to the test has not lad to much difficulty of administration?—No. 30916. Professor METTAR.—They don't refuse to shed Noed?-No. 20227. In the case of diphthesis, after the palients are removed to the baspitals, you want to sould the threat of everybody on the farm?—The county surface!

the do m.

2008. The Chamean,—But they are always willing
to ex-operate with year-Oh, yes, but our local Acc
was persed in 1890, when the present county admissistestion in Sectional was not in adaptace. tration in Scotland was not in axistence.

50919. Have you a county medical officer of health
in each county?—Yes.

is each county?—Yes.

2003. And the country medical officer would have jurisdisting over every period of the country in which hadds it is appointed. "Yes the hadds had positioned." Yes refused to course to the country of the countr

medical officer for the county is the medical officer for each division. He has jurisdiction, so to speak, errer 30902. That works officelively?-Yes.

30003. Professor Mercan.—Take Fife, for instance?— Fife is a complete county. The Burghs are not included in the county. They are local arthuridan globed out of the counties, and there the county medical officer has no jurisdiction. traced to milk both at the point of production and the point of distribution

your authority insist upon the cove supplying the milk-being sobjected to the telegraph test?—With regard to the action taken after the discovery of a sample teberculous malit, the heed is examined, and if the affected arimal can be loosted, it is expelled from the

Dr. A. K. CRALMINS. -- 21h November, 1913.

byre, under a penalty of five pounds (Section 26 Glosgow Poice (Amendment Ast, 1991). With regard to teles-ouily, is has been held that our classes does not cover \$5925. As regards the sterilisation of milk, when you sterilise at a high temperature it is not so suitable for food, as a food?—I believe our experience has

emonstrated that. 35007. I suppose ou town auppose it would be less dignathle, consequently, has assimilable—that would be the ex-planation of why the cirilicus suffered?—I believe that is one of the reasons why our milk depot holdes were

Eghter in weight.
8928. Lady Evenues.—Have you over tried cooling? BURES. Lady Evindam.—Have you over than converge.
—We have tried, with the hospital milk, to get a
temperature record. Roughly, if averaged secretaring
past under 50 day. But we on early obtain sords
cooling as neight be done by the water supply. For
faunts have artificial applications for the purpose.

20009. You do not get it at the hespitals in tec?-No. 3093b. We have had evidence that they cool is in Australia?—I think it is the practice in Australia, and also in Conside, and the United States, and elsewhere. Mgs McNana.—It is quite general in the States.

20081, Professor MINTERM.—You gave us teresting statistics as regarded the diminuitor of the number of telecrotous samples of milk taken in Glasnumber of tubercious seasones on mile taken in Obse-gow. Can you offer any explanation why it gradually wenk down, from over four per cases, practicelly to semi—It is only an inference, but I take it that the

farmers had really watered up, because the presence of tuberels in milk was being demonstrated. BORRE Mr. CAMPRELL -I that then samples were not taken from the farms that were under contract to supply milk from tested cows!—There are two points to be remembered. It went down in the

iris to be remembered. It went form in the supply, and it disappeaced altogether in the objects supply.

19325. All the milk supplied from the bespitals somes one tested cover.—Yes, for the favor bespitals. from tosted belonging to the Corporation

So that, in a reasonable period of time, the Services themselves were able, practically, to eliminate telerophess from their milit - That appeared to be the case. Of their own initiative, they were this to recruit their stock in such a way that they got fower toler-colous azimals, and, consequently, less believeslous

milk. 20035. Have you much trouble about the quality of the milk sold in id in Ginagow?—I suppose one neight to say Fast I think Glassow. Jim most other laws are mink som in Unangow — a soppose one degat to say it is pure. But I think Glasgow, like most other large office, suffers from the standard set up by the Milk Commission. The niffs is not watered down, but sometimes it is diluted down, by the addition of

General Tr. 1981 as a strong of the con-trol of the control of th

nect number of non-parameter secreties, in connection with which proceedings were instatuted, was 65, or 15.7 per cept, of the total statutory samples submitted for with which proceedings were interested, was we do not per per costs of the local statutery samples submitted for studyes. In \$3 of the cases taken into corn, the samples were deficient in faity salds, 3 were deficient to per-firity soldies, ond 6 in both fetty and non-faity One of the first group also contained bork. The total amount of fines and expenses inmoney and recovered in respect of three 45 samples 8094). In these a considerable amount of sensewied milk coming into Glasgow for consumption?—There

named ho.

10040. How do you regard it as a food for Gianges
page 2-Ts us not a complete food at all; it is To us most a complete food at all; it is lacking in fast. shouldely lacking in int.

30963. Too would not condemn it altograther as a

2094). Too would not condemn it altogather as a food?—It is used for making somes, and it is used very largely for reducing the milk to the legal degree The CHARMAN.-Enstoad of weter?-Mr. Caserenta.—You mean, for reducing the quality of the rellic?

8004. By Sunware Woonnessen.—To what extent is the Widel test applied in connection with farms? Is it applied on farms where typhoid fever has bucken is applied on facus where typhold force has busion or amongs those who hashin the milit—The insident which I related of the orbites's brought that point yearstratily before us, bosons it was the second or tified flustration in this country of a certice being the cause of us outbreak. The certice was an old women cause of an outbreak. The certier was an old woman who had had enterio fever treatly years ago, and who scenard to be perfectly healthy. In that case we had the Widel test applied.

3045. Are preservatives allowed in Giosgow 5-They are allowed by law. At least berein and is. allowed by law. At least berreio said is. 20947. Does it corpr much?-Yes, it does 20042. Niu McNessa.-When you had your milk

got, there was a considerable loss coals year?—You, coal about £3,000 per sunum. And dealt with how many bebies-1,3009-2004D. And don't been now many think that he the cone.
2004D. That £2,000 less was less in addition to the

S0000. Their \$2,000 loss was less in addition to the money paid by people who hought the milk—The total cost of the dury was usually \$6,000. We got seen milk nake more than \$1,000, wild the believe was loss. \$6001. You mild the milk at a low rates—Only yes. We add it far much less than we can preduce it at. \$00000. You have we spicop and definitional at.

Yes. 30133. The Crameran.—Heat you say difficulty in keeping up the standard of botter feet in the milk supplied for your scheme at that time?—No. It week run about 3.7 per cont. 20254, Mr. CAMPRELL -- Have wee

buttermilk in Gleegow?—No; I do not think those is a standard saywhere. Do yet means a standard for fas?

5000\$\$, No; for solide. X saked the quantum
bocame it is an existe that is heavily directed in the
chriming process, and I become to know that his very ethiraling precess, and a pappers to many town our much used in Olasgow. In Iroland there has been considerable pressure conveised to a got a standard fixed for butterroll??—I can not sum that Dr. Droop Bishanend did not discuss all that at the Mik Stendard Inquire. I have the lengeration that he did. One of the diffirelies that lies in the way of the whole recoverest in the fulture to distinguish telegralesis, and to treat it on a basis of its own. Administrative confusion also arises, because you have the same word to describe the place

tectories you have the some word to describe the place where the milk is predoced and the place whare it is purveyed. And now the caré by which it is carried in called by the same name—a "slop," or a "farm." I think come further definition is required. I think size, that a way should not be allowed to sell sterificad greater and greater distances. He sterifies, or pasteurises his late surplies of the afternoon, and these are mixed with next meeting's early fresh mak.

80906. Would you say that butter and hotterwilk should be brought under the same regulations as rolle?

Dr. A. H. CRALMERS.-7th November, 2512. coted authority could only erect its standard on the

But if you ... So far as production is concerned, yes. But if you say to include all places, whether for production or dis-

or to maked all places, whether for productine or dis-ministra, you see compelled to thring in the green's aloo, where they sell thread unife. I daink is which you probate milk from this place where you still it, secretal this you maked it situation is a place of the you probate milk from this place where you still it, you will be the secretary of the place of the way makes is stroot impossible to unraved this knot, if you have to brace the source of inclusion. The product difficulty seises through the way in which districted, however willing they may be to help you, constantly contras themselves by their own tends methods, by mixing the milk from our district with the milk from eather, and by maxing skimmed milk with sweet milk. shink all the different sorts of mile ought to be

MINUTES. The CHARMAN.—Is there registration of milk shops in Glasgov 9—Yes; but I think a license should go required.

goods. In whose electronizations is registration corried on? Is any impetition made before segmentation of granted — Vice. Under the Differs Order one of the many powers is taken one are this to regulate the electronical details. Until the structure corresponds ateroteral details. Until the structure corresponds to the hye-fews, the delrymen cannot begin husiness. to the systems, the maryone output regarding for There is no expainance of a change of ownership, how-aver, though that may mean on enomicus difference in

the method of conducting the business 10009. And of management?-And of management GOOD, And of managementh-shad of management. I fairs the presents with the disputation with 10 days of the property of the property of the principal of the pri one, man you may some it to Cork? Or why should I in Glasgow be able to go into Leanthshire and say—"don't could prov milk to Glasgow; send it to Paules."?

30900. Way should you say thet?-I must inferen-Solid. That is, you don't say it in so many words, but you say it is effect?—What I mann is, that if you have power to set up a burder applical recording that milk in your own form, and the milk goes on heig prefered, it mind no somewhere else. I think the hetter plan would be to have forms licensed. The licensing authority would require to be a local authority for the district in which the form is situated, and it

thread he wessitte for any local authority, within whose boundaries the mile from that district is consumed, to appear before the licensing body, and show same why the license should not be renewed. 35903. In what chrometaness do you consisted that their power should be conferred? In it a case of the lattly of lead hodies in entreding the cambing provisions of the lastled property a paper on that very subject for the Infant Metality Conference in 1960. erlipcis for the Infants Metality Conference in 2006. The verse, who are at the Infants Metality Conference in 2006. The verse, was a third topic, motified effect to the English throat Generalized Bouel, told me that in English throat General Infants Amberthes, and the English throat General Infants I

9903. Lady Evenuer.—You would substitute near!" for "may "!—Yos. I advecate a literating rates... A load arthority whose population " must "morst" for "mary "h—yes. I afterests a literating system. A local miturity whose population system. The properties of the properties of the system attacking for this short, or whover tright let this attacking for this other district, to above rooses with attacking the short, or whover tright let the attacking the short of the short of the short literature and the short of the short of the while of the disposition at the disposition of the short of the sho Go life of the family and the domestic life of the cow. 30954. The Challean, I recognise the importance of the point you roles; but the difficulty would be more readily dealt with if a code of regulations was laid. seeing uses with it a cost or regressions was used down by a central authority, applicable to every in-dividual local authority throughout the country. On on-larcomount of which would be supervised by the central authority?—One difficulty one saw there is that the

possibilities of things in the poorest and most rural SUBSET Is on your point. It would be impossible, in your opinion, to fix one emission standard to govern every ocadridor, and every local softlority—lim. I think it would be a serious layery to the bask it certain confliction were imposed in certain yould seven. And the hardsbigs might possibly he the other way shout And the substrops magns possibly to the court way seven. You might be compelled to approve of byres in like town which were only suited to the country. One feels that the consumer has some right to indicate the

final that the consoner has some right to indicate that considerate andre while he will above to this milk, so will above to that milk, so will also will also be that milk, any "we won't knew your milk" might be object to a supplierorary place, nurst in the repulsion you wish as the control of the consistency of the one to mite a merce can cooke to worker is in said in quart bettler at four-gence, all the year round. When we stopped our depot I saked a dairyman if he encil bettle hell quartities—parts instead of quarts. He said the difficulty, enricesty except, was the help the continuated in solved it. I think that lagin-britis. Ultimately he solved it. I think that laginleton should chiefly size at the production of milk that dose not require to be starified.

3797. Miss McNant.—You can't wand milk very or mean parents.—100 cm ? ratel mile very far sway from the source of postorics, it you bottle. %, breause the carriage of the bottlen becomes so big?— East if you have got children and suding, you can carry it 100 miles. They supply it so treated to the hospitals

in London.

39968. For some time I was in a hospital in London,
and they used to get milk in quart bothes from the
Aytesford dazy?—The dairyman is discovering that Ajendroit duny?—The dairyman is discovering that schembing he is commercial when; that it will be a mid-mining he is commercial when; that it will be a mid-mining he is the schembing that it is schembing

80970. They eve not excelled in their limits?—Some of them are fitthy.

of hirm see fifth;
39771. Here you in the earle?—Xee.
39772. Here you any reason to compiain of the strice
39772. Here you any reason to compiain of the strice
at the versible part of the strice of masses which are expected to dust and divid—That is so. Then there is nonline Oling, which is broad to some up. There was a very good expected to Mr. During the source of regards an evidence simply means prolonged opportunity

esgacia is avvilues finajly intens polangel opportunity for the bodil.

30974. You man this a great dock! I cham may be 100974. You man this A. T. II out finis twent of the control of the control of the control of diphleria in too mit layely, for measure, that should be quite sufficient evilutes to justify out in suspendig the energy. Log invition to painty out amounted afterwork. There were moreline milities have been supply to the control of me that can method of getting quit of inherenties is no catalt in to have a efficient Sound of Agreedizms. one cattle is to have an efficient pound or agriculture, and to make them responsible for the condition of the cattle, with an insurance scheme. I made stems releasitions once in relation to order affections in calculations upon in relation to utder allegates and sociation, and it somewhole for me that an inversione rate of a halfpermy per head of cattle in Sociated would give an allegate of about \$85 per head in work course 20075. Mr. Carrestan.—But that referred only to

toberculosis of the uddn?-Xes.

Dr. A. K. CRALMERS .- Trh Nonember, 1912.

36978. And that is only a small percentage of the tabercatosis in the count'—I house, but, in the same way, I calculated that 36d, per oow would allow 413 per head for all chickelly effected azimula. 20979. Here test are video of the number of affected per bless for all tillnessey excessed someons of effected source in the Scotlish herds?—I have heard it put at 20976. So high?-On in it 38 per cont.? refe, we are in a fair position to assume what is measure.

In Vious an energous number of children react to

tuberculin, but a relatively small number dis from tateresium, and tatheresisme Merran.—Does that not apply to other places as well?—Yes, has Visuas is one of the places as well?—Yes, has been carried out on a const panels as rear - are, and whenh is one or non-pinous where inquiry has been carried out on a large scale. We should first got at the number of affected animals, and then we might make arms pro-

gross, and by a system of insurance, slded, if you like, by the Government, it seems resonable to believe that we might get rid of the disease. S0002. Mr. Campazza,—The deficulty about insumnce is that you cannot compel there to insure?-Why 10941. It is of no use, a few hundred facuers in-

Professor Merrass.—If you get no insurance Act. you can make there insure.
The CHARRIMAN.—We have got one.

The Witness, Indexements might be offered. The lead of Agriculture might offer facilities to farmon Board of Agriculture might offer for passing cattle under the teneralin test, when recrutting their stock. Then in return for an inverse, of a halfperray an animal they might offer to buy up all the artitude with clinically affected adders.

Mr. A. M. Toovers, M.R.C.V.S., examined.

30082. The CHARMAN,-I understand, Mr. Trotter you are voluntary surgeon to the Glasgow Corporation? 30685. What inspection so you carry on with regard to cattle under the Glasgow Corporation?-The impecto ostite water the transport complement, regarding the city; then of owns comes under three heads; (I) the city; (I) the county; (S) heapitals. The heapitals are under special contract. The relikers must be in complete oversille, and must wosh their hands before missing octions. Every one is tested for subcreations.

20084. What percentage of reactions do you have?—

Belevous TO and 50 per cons. reacted.

20085. Mr. CAMPRILL—Are you talking of mixed 2005. Mr. CAMPRIL.—Are you talk's harder—Yes, all sorts. 2000. Mainly Ayrahire cowe?—No. They

hought in the best merket for milk production. bom ere Irish cours or them are iran core.

30887. Do you find that 80 per cent, of the Irish
core react!—I do not say so. Our supply comes from
different quarters of Iroland, but we are griting a larger
number now noises effected with telescriptois. 10083. Professor Murray.—Are they old cows?—Xes. The greater number of the Irish cows we get are about treesly years old.

30990. They should know better?—I can spenking for the shatteles. 20000. How often do you report the teborcalin ig-jection for the mill: that comes for the hospitals?--very year. 10991. Not more frequently?—No. In 1911 we tested 66; 58 were pessed in the hard; 80 were sounters: 10 were dechtfel, 30002 Mr. CANFERLL -- What became of these that reached?-- They were disposed of. 30000. Professor Marriss.—Resold, and last sight of? -Yes.

—Yes. 80994. The Charassan.—Howe you notes of any for-ther period in which you certicd out the test, to show the percentage of resolious?—No; we have carried out ther proceedings of recotionar—no, we will be been for four or five your.

S0006. In the number of macoloon disclosishing?—Its With the repeat test you frequently get reactions, houses the baciline may be a number of rearlies. lying domaint at the first test, and it may sering into Jying formant at the first test, and it may agring into-critieness between the irests. 50000. In no other case do you subject there to the betweening tests—400; we have no potent. 50007. Have may of the contrologues surplying milk to Gitsgow had their heads seeded, with the object of the control of the control of the control of the 50000. Does such milk supply?—200.

SECS. Professor METTAM.—But suppose it is not

31000. Do you interdict the use of the mile?-No. we cannot. We can insist on the removal of the Stone The Chamman,—Have you had to have re-

corres to drestic methods?—No. course to disastic methods 1—No. 1004. You find that a motion covered in sufficient for scoomplishing your purpose?—You. 10000. Mr. Coloranz.—You can go ceitede the odry 10000. Mr. Coloranz.—You can go ceitede the odry 10000. Mr. Coloranz.—You can go ceitede the odry 10000. Mr. Coloranz. The property of the odry 10000. Mr. Coloranz. The property of the odry 10000. Mr. Coloranz. Mr. Coloranz.

fries, how do you do then?—We seem an respector to visit the cover. 130007. Do you know the same of every farmer scotling milk to Gingayer in these counties.—Not they are changing from day to day, but I send one of my satisfacts to the statics where I know the milk is coving from, and he makes impairies, and traces the forms. \$1008. Professor METELM.—How many veterinary as-sistants have you?—Do you mean for this particular

\$1009. No; in connection with milk work generally? \$1010. The ORUMAN.—All qualified reteriosry are-\$2011. You make use of no key inspection at all? butt. 100 lines one or no my impostor se may be have an emistant impostor. 31012. But he has nothing to do with the boulth of

for outsio?-No. r cargor—900. TREET. Is shortion at all common second the Scottish dairy herds?-Not very common. Of course that is a reatter that very soldom romes under my charaction.

to determine whether one mine giving properties of our are increasing or decreasing? Are mile records kept to any considerable extent in Scotland?—Oh, you.

31019. In it becoming more popular in Scotland?— Yes.

**JIOIT. Do you consider the records helpful to the
farmor?**—Most assuredly. I know one farmor with
terror of a loss into a posit through looping records.

**JIOIR. The records guide them in the wording cut
of unprofitable national?**—Yes.

et ourprefitable minutal 3-7-20;

5507. And you think the hexploy of records ought to be accounted in overy possible way by the State, we as to though the presidence of milk by hardre got as to though the presidence of milk by hardre got you have a good comment. Then have a good comment of what may be one of the prediction of milk and they have been the prediction of milk milk of the prediction of milk milk of the prediction of the prediction of the prediction of milk milk of the prediction of the pr

gov, are quite unable to improve the breeding, because they do not breed any cores of all.

3000. They hay obving cores from time to trop-le as the delay furnar in the country who breeds the cores, who would during the greatest advantage from the control of the control of the Chinagon anytic concess of the control of the Chinagon anytic concess tous the Appairs some Would it he a halft—I should not be the control of the Chinagon anytic concess tous the Appairs some Would it he a halft—I stone one Ayranne agone? Would it he a halft—I should say shoot half. 31022. In the standard of butter for higher in the Ayranizes than in the ordinary oreashess?—I do not highly so, but I could not answer that question with any confidence.

take action to make him.

Mr. A. M. Taorres, -- 7th November, 1912.

\$1600. Are many presentations loutituded for the adulteration of nulk in Glasgows-That is not in my department. https://www.but.com/sens.from time to thus, reports of eases in which prosecutions have been sudertaken?—They are undertaken practically every

2022. Professor Marray, -Who is the judge in these

3072. Processor ALTTAM.—Who is the yedge in these cases?—As a rule the stipendistry magistaste.

31027. What control have you over the great helk of the milk that comes into Giasgow?—We have grantically see control, all the content on one exercise is two. regulation.

51058. Samples are taken regularly, and submitted for harbridogical examination !— You, collected at the

forms.
13,000. Then the milk, as it comes to the various heape stations in Olongow, as collected by the purveyor, and no further notice is taken of it. Don't you statut in would be bester if the person who takes this milk as it comes to the city were cammind?—Yes, I do, but prefer visitation at the farms. There are other tessies tobecculesis. 1030. Do you toke a certain number of farms

priodically—Tea.

SOUL 55 there is no control of the quality of the

SOUL 55 there is no control of the quality of the

SOUL 55 there is no control

SOUL 55 the is no control

Xei:
31035. Suppose you have reason to asspect tabarcalosis in a bard from which you have taken milk,
have you power to apply taberoulln?—No.
31036. You have to be content with a clinical
examination?—Yes; but we often do apply the taber-

calls test. 28 years are request? Do you permude the owner to allow you to do ith—Xes. suspent that a given arised to its beautiful to the property of the pro

van a system of instorms fostend of regulariton; the instance of kingman britis grapheno, they we instance of kingman britis grapheno, they instance of the property of the contract of the 1810A. Professor Mersan.—Weeld you replace served 7-10a. I would like it entirely out of the 1810AI. Miss McNillac.—And every owe producting with should be replaced, as that the could be iden-ful should be replaced, as that the could be iden-fied to the contract of the contract of the 1800AI. Lody Errandov—Would it not be advisable for the Dairy and Correbbed Order should be made

compulsory, and not permusive?—It is a national matter, and it should be carried out by a national body. In 1905, in Scotland, out of 400,000 cover only 18,000 were extracted.

51045. Professor Murray.—What percentage of cows
softer from subcrecious of the udder!—That is a difficult question. If you get into districts where you have old time, you have a greater number toberculous. In districts where they loop young over there are fewer toberculous. In the elegitive-bouse, in 1906, we found 2.4 per cent., whilst in a group of live animals

one in fifty-three showed defective adders. S1944. Mr. CAMPUNIA.—Are there many furnous in Scotland with apply the athenually facility Order a 31945, Do 31545. Do you responsed them to do it?-Most assuredly; if they are going to cradicate the disease.

51066. How would dinnan? First of a ow would you proceed to conflicate the First of all by baving the cown tested, I

5.007. And who see you going to do with those which react?—All those which are affected with open telectronics should be got nd of that.

30.048. And how about those which have not open telectronics. So with the second property of the second property o

S1049. Would you allow the farmer to sail their milk in the meantime?—Most assuredly, so long as it is kept onder observation. \$1050. But, where the animal develops open toher-

losis, you would sand it to the butcher?-That is a different thing.

81031. Then what is the use of your instruction and
81031. Then what is the use of your instruction and
is the farmer if you do not?—I say, let the
farmer stangbur the summal biffield, instruct of selling

farmer samples use to the state of the same to the sam

thereid is the temporalitify Hamsill-Yac.

1964. I do not suit. But you are option that Differ I was not proposed to the Differ I will be the proposed to the temporal tempora

culous, so far as one could see.

It and, It would have been doolish to shaughter those cows, just because they reacted 5-Yes. But, of course, all those cours were effected, and they required to be kept under careful observation. be keept under corem onesevenam.

\$1000. I quite agues with you. I am willing to go further, and my that, if yobble facilities were provided, you might amast on the terminoposity examined in such control. The milk has terminoposity examined in such control. Then, the Government ought to give facilities.

\$1007. Loby Symuso.—They do in Denmark's—Yes; Tabless they.

Sign. Lody: Evenues.—They do in Demark?—Ext; I believe they do. 33058. Mr. Courrents.—But my point is their H you all to make any progens in continuing inherenties, would be make any progens in continuing inherenties. But the second progenities of the successible way of disposing of this unconsidered progenities. The second continuis.—Ext. Of access, I am a public official, and it would be very sorkward for me to say that I would active the irrarent to well this discould now to such active the former to well this discould now to such active the former to well this discould now to such active the former to well this discould now to such a such as the such active the former to well this discould now to such a such as the such as t

Mr. Campana.—But sumebody has to say it-

Mr. CRAPPERL—Dut surpoledy has to as ji. The CRAPPERL—The transport of the the probabilities are that the families will do it blagged without being fold, in a fifther than the contrast will do it blagged without being fold, mad the country in effective, but the price is may be the cratter of the contrast to the contr cells receiving animels abould send them, sector or hiter, to the abattour? I think you can agree with that, too, Mr. Compbell?

that, too, Mr. Cumphell?

Mr. Cussware.—I agree. But if you send a felrounting our into the matter, you may be assessed a
feating soil a shorecolour over. That is the difficulty,
the string soil a shorecolour over. That is the difficulty,
wall not even go so far as to allow him to wall to in the
open market. He says, "list be immore staughter is
intendit, and tain the responsibility." That is somestring to be intended to the colour. Wifness.—The buisher ought to be protected as well, as the farmer. The farmer very frequently knows that the cow is diseased when he disposes of it, and the butcher becomes a victim of his greed.

51000. Mr. CAMPBELL,-But it might be said that the SHOO. Mr. CLASTERLY.—But it might be said that the bramer is petiting rid of the cose for the country's speci, he is electing his stock, and, therefore, improving the nulls supply?—In that cose leb him simplete it immedi, instead of selling it is another party, and putting his

Mr. Canruma.—Well, I am satisfied, so long as you allow him to sell a cow that has reacted when the veterinary sungeon cannot see anything wrong with the

The Causanay.—Thank you very much, Mr. Tretter, we are greatly obliged to you.

Dr. J. SPOTTIS WOODS CAMERON, M.D., B.Sc., examined

\$1991. The CRARMAN.—Yes say the medical ont— of health for Leeds, Dr. Conneco.—I am. 33902. Woodly one fieldly sold the Generalized what coaled is essential by your Public Health Authority war the nells exppty!—Publ of all, we wist all the malls forms is Leeds by one of our regular aspection. New we also see further, then that. We write every Then we also go further than that. We wish every from by the reterinary inspector about three or four things by the veterinary importor about three or item those a year, and examine every cow, to inciritie whather it is suffering from takercalous. We sample

the cells in the ordinary way, to see if it contains added water, or there is loss of cream, which, although imperiods, is not so important as the tuberculous matter. \$1565. You also have the powers, which were con-ferred on Munchester, of actiods inspection?—Yes, \$1004. You have in operation what are known as the Model MRR Charges?—We have. Model Hills Characy.—We have, \$2006. Here you found them helpful to you in ensur-ing a pure milk supply—Helpful, but not satisfactory. We do not quite get a pure milk supply. We took last year, \$431, about \$41 samples from 129 different outside forms. We found that 5 per cent, of these samples, slightly more than 5 per cent, were toherou-

loss. These were outside the term. We did not sample specimens exactly in the same way inside the town, processes the control of the control \$1996. As in the case of other cities, the west

portion of the milk is raised outside the arra?-I think three-fifths as raised outside, and about two-fifths basele, and the one-fifth between the three and the two is raised in the neighbourhood of Leeds. We have seconfly added a distract cutoffe, which constitue many milk forms. Two-fifths inside, and three-fifths outeids.

side.

S1007. Hes coy friction arisen between your local authority and outside local authorities with regard to numerous and collinies bond neitherities with regard to inspection which you are enabled to cleary out number your inspection powers!—I might point out that we can't inspect unless we have runson to think there is telesculous consing from outside. Leade we wint every form. Outside we can only go where we behavealous coming from outside. Inside we white every farm. Outside we can only go where we reasonably suspect; when we have a reasonable suspecies they can't nor anything against us. We have had a little friedran from our local authority, which thele we regist to tell them when we are coming to their fames. That is an isolated case, and it is not a reasonable This is no include one, and it is not a reasonable objection, because who we have a suspiciou we want to get to the form on once as we form it, and before the state of the form of the state of the sta a very powerful classe, by which you can go and in-spect our form which sinds milk to your area. \$1008 Your powers are not so drastich—No; we could not get that. The whole of us yound together and we conceid a classe. We wroo the only people who could not get them in toll. It was the County

and we consorted a classe. We wroe the only people who could not get them in full. It was the County Council who heried us out, on the grand that they wanted to know what we were going to do. We had that knocked out afterwards. 33060. But in the extended powers of 1961, theil difficulty has been previous? -- Tra.

18970. Here you had reason to suspect that the milk had heen a mouse of infortion in any goldenia of disease, unto a search force and diplatheris—So-So-I don't think after. But we have power to impost water the Public Health Acts, and wa have frequently used that power hefere we got the extended powers. used this preventation we got the actuation powers.

40071. But you have form time to firms, had reasons
to wapper that the milk has been a source of infection,
within your nest—You man with regard to cedinary
infection? I flavon, in one or tere owes, distinctly found
how here't fiver and diphilateria. We may
have had one or tere ships mans. On the whole we
have gone as this principle. In every one of scatist
mere gone as this principle. In every one of scatist have gone on this principle. In every case of scarlet fever the name of the milkmen is marked down by the inxpector, and if several cases over in home served by the same milleuse, we go and visit the farm \$1072. Have you the power to suspend the supply of sulk from these faces the moment you suspect they are the source of infection?-We have never had to

\$1073. But have you the power?-I den's know. The Infections Discouse (Prevention) Act of 1890 a very clamas. You have to visit the fame, and report The Matchites Dissolves (Prevention) Ant of 1899 is very clause; No laws to whold the furn, and regarding the property of the laws of the property of the laws of the laws of the property of the laws of the have no eight to go beforehead, and see outside what

they are duing.

31074. Does your veterinary inspector ever report to
the Public Heelth Authority that he has found uppicione cases in certain herds, from which milk has been sent in? Wast action is taken on those reports? Inside the town we deal at once with the conrequire that the cow should be serrounted, and the call: not used.

BiO76. But, at the same time, if he is a person who is greedy by nature and disposition, and anxious to turn

or group, the may compeliate any on the arm of var-cery years, the may compeliate any on the malls to see in which, I think, that was deno. We adopt the plan, in a case of decist, of slopping the site of the milk, and we pay compensation for the less of the milk where we have any doubt. We had difficulty in one where we have any doubt. We see otherway as one in secretaining from which one the behaviour anilk care. One tow we fill see was yielding the tube contour galls. We thought the man had separated to the contour galls. milk carrii. One bow we may be the partition milk carrii. We thought the man hid separation tubercalous wilk kept coming in. We got the mean to technic several others; we found that here over were not tobercalous. We paid comparation to the tubercalous with kept contains in the tubercalous milk kept contains in the patients. the griffs of the tuberculous ear, into the common steel the mill of the finishermone over into the common stort.

When the core we had originally suspected was killed we found no more subcreations milk. I think that is the only case in which we had reason to suspect we were being hoodwinked, and in that case it was done by

a servest.
S1976. Here is the doubt ultimotely solved? hy subjecting reported samples to besteriological an amination?—Generally we have no doubt, if we find a corr with unlarged solder, and a history of circuit in densition, and we do not subject that milk to any special test, makes unide the town. In the outer area special (set, maless inside the town. In the order arise we find of all larm that there is subscruzion in the set and of all larm that there is subscruzion in the theoretic set, we set the superiors, and we think her solder interference, we set the superiors, and take a sample theoretic set that the superiors, and take a sample theoretic set that the superiors and the sample of the set of the superiors and the sample set of the set of the superiors and the sample that we have bill it. It is set in the second of the 100 cm. Here has third population to have a pure mile to second in the sample set of the sample set of the boundary mass and women to after 1867—186, that is

makes and some of a their Biel-So, but it are creately the case.

It is a nature of coperate in-peration of the Public Secold Authority to take every persons for the Public Secold Authority to take every and the public Secold Authority to take every and the public Secold Authority to take every person of the public Secold Authority to take of the Lorder-Second Second Second Second Second Lorder Second Second Second Second Second Lorder Second Se

Ore Mayor wrose to use transman of one cannery Committee, and effered \$200 towards carrying out the experiment. We got a small subscription list, and carried out the experiment for twelve monaths. One difficulty in dealing with Liverpool was that the medi-cal officer reported that the meriship emerge obligion call officer syported that the marchalty smore children demixing milk is so much, and the marchalty smoon ablidren born, per thousand, so much, the mortality among the ablidees draining the milk being ble lesser member. But the first week of life is very field to children, seld skey do not usually legis taking the ablity is later period. I corride on the experiment for the contraction of the contraction of the contraction of the later where the mortish, and I cause to the excellentation that there was sumething life 25 per cent, saved in the mortality of children who were taking the milk yea-

vided in that way, as compared with children living in

the same district who were taking either their mother's milk or ordinary sullk. We took no miscood children; they were pinked out only in the way I have demonsted. Siminating all those under three months, to heefn with, we found that something like 25 per cent, were \$1090. By the use of a milk apply controlled by the Municipal Authority?-No, not the Municipal Author

Manacipal Authority?—No, not the Humospal Authority, but a private committee.

1981. But soles the some of the Humbigal Authority and by public philasthrops?—By public philasthrops?—By public philasthrops. thropy.

1979:

The Would year say that the cost of such an expensional should be born out of public fundat—Parisashly, I should say so, but I am not expressing the

ogizion of my autocomy. 21065. But in your personal opinion you would think in a judicione expensitute of public mensy to provide a pere mille supply for the infant population?—Un-

SHOM In all probability such expenditure would more than pay for itself lower on, by ridding the community of the burden of institutions, such as alma Dusers, houghtle, and workbooms, or by relieving that bur-

mild by the descriptions of the description of the

31087. By the careful handing of the milk?—Yes.
31088. By drawing the supply from cowe that are
arroved to be builtly and sound?—Dottle as.

proved to be insultily and could 5.—Qille so.
2009. And by sering the milk from contemination as transfer—Yes. What I shatch by he do would be to the content of the country of the countr

the continue of the continue o

31032. Do they sell is at ordinary commercial prices?

—Xes: at commercial prices. I facer it is perture a title higher than the ordinary supply, but you may say that it is sold practically at commercial prices.

55000. What is the ordhary price; the celinary re-tell price, in Leeder-During the greater yers of the saturner the milk is sold at 14th a pint. It prices to 2d. I think the Wessleydale milk is sold at 2d. a pint at all sessions of the year. Mr. Direce, the reteriors impretor, could tell you better

Mr. Direct.—It is 3d. a quart in the summer, and 34 a quart in the winter, from the cedinary dairyman. But the Weminydale dury scoure 4d. all the year round.

Due the Wennisyshis dury scource 44, all the year count.
300-M. In the Wennisyshic rails consumed by the
abstraction people, or is it mad by any arter's by the
abstraction people, or is it mad by any arter's by the
abstraction of the state of the state of the
construction of the state of the state of the
militarian people from doce to door.

The madesimes
planted in the particular of the consumer of the
militarian people from the consumer of the state of the
militaria may a planted of the state of the consumer of the
militarian people to come from forms on which a release
with the proposed to come from forms or which a release
to the state of the consumer of the course, I am not able to any whether is is so or not.

51095. It is slaimed to be so?-Yes. I do not think the corn are tubescalined; I think they are inspected. \$1096. In your volerinary imspector a whole-time

31097. His whole time is given to the inspection of the dairy bords, and the administration of the 10th Classes"—He is also the most inspector. 31098. The inspective of most is the only other duty he is called upon to diebarge,"—Zee; he is entirely under the Health Department.

Dr. J. SPOTTISWOODE CAMERON .- Tak November, 1912.

under the Health Department, \$1000. Has any question ever erison in regard to \$1000. Has any question ever erison in regard to the payment of compensation for parting with the payment of talked about. I have had interviews with the Sasiets of Darymen, and I put it to them in this way. If you will undertake that you will not admit to you delites cover from outside, unless they have been tuberculin tested, I will safe the Corporation to pay you she whole, or nearly the whole, sent of every cow you less. But they said they could not perveade the farmer to

But they said they exclude not prevende the future to said its much steament use. Said its next steament to the future of the some indecement to the future to direct the attendant of the future to direct the attendant of the sententary imposed to long you in this hord. In suspended as blinky to be suffering from tubercombast, so peach as blinky to be suffering from tubercombast, so peach to the sentence of the

is at once? He is tourn so won,

suspects tuberculosis.

\$150. Yes, is order to source prompt to operation,
\$150. Yes, is order to source prompt on operation,
so that it might be possible for your inspector to
controls the assimula at the certical possible measure

the measurement and the control of the controls

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attended to the controls of the controls of the controls

the controls of the control of the controls of the controls of the controls of the control of the control of the controls of the control quite support such a pravision.

81102. You think it would be helpful in eliminating suspicious animals from the nifft herds? What I have in mind is some scheme by which it would be mave in mins it some senses by wood is wood in more profitable for the farmer to have the cow en-nuined, and condensed, if necessary, on his own representation, than to keep it, to the danger of the guidals health ?—If such a solence could be devised, I

agree that it would be a good thing; but it would be signed that it would be a good falling like it women as \$10.00. To work just in predicts easily the difficul-bit utilizes you take some entrue to accure the precep-sory of the contract of the official of all the composition of the correct with the official of all the source of the correct with the official of all the difficult, no maker have tigited year inspection may be, to colde very contract the means it becomes to the contract of the co

nary inspector, had detected in going round, and had printed out. Two mouths ago Mr. Dirne came arrows pointed out. Two mounts ago say DEEs come accom-another protty advanced once of transculouts of the udder on this form, and I advised the Committee to

pronents.

31104. It was such an obvious esse that the farmer
ought to have seen it, and notified it?—Yee. He was
fined five shillings, which was riflections in a case of
that kind. We have had larger fixes in the same
class of case. Fortunstely, a good many man report
as soon as they have any unspiritus, especially lious 81105. You have, unquestionably, more control in your zen aren isan outside — Louide the city, of course, we own area suits obtained — Interes the casy, or convex, we may living at their very doors, and we are in and out; they do not know when we may deep in.

31106. Has your imperior retir been confronted with any difficulty in carrying out his impection in the country destricts—has be ever may with hostility

any mintanty is carrying on an improvious in the country districts—has be ever med with healthly from the dairy country—the mintantly, I think. But from the dairy country—the mintantly, I think. But from the dairy of the dairy opures, every week, and reports.

course, every week, and reports.

31106 But these are matterey that come under his
observation?—Yes. He sulph heathets to say that
there was a difficulty to inappending the country farins,
because, as a gazzeel rule, when no inspector tells mahe has difficulty to carrying cot has impector. I begin
to suspect him of out slowing colleasy diplomacy. Of
course, I do not suspect Mr. Dixxo of that at all. 51109. Ledy Evenant,—Would you recommend lie

and hear newscan, we can you recommend focu-ing instead of registration—I mean that dedice should be licensed and not registered?—By a license I suppose you imply that it could be taken away? 31110. You?-Certainly; I think registration is rather HIII. Do yeu think that the Am should be make exceptionly risked of permistrys, and administered by a corried exclusively. As the present sourced you find one shifted yould be Corried and Dahlas Order and State of the Corried and Corr

districts, in other words, their year should entire the finite makes have controlled to might be a good finite makes have controlled to might be a good of the controlled to t

We should his to drawn came of grotting enthusings with the control of the contro

Act, and in the second place for inherenisels.

20.11. For make two different kinds of examination?

—We do not make a regular hierarchical classification.

—We do not make a regular hierarchical classification of the place for the first place of the first place of the place of the first place of

milit his the games and interculand. We slight the milit his the games and the property of the

with a behavior of the control of th

him that it he does no and order presenter. We dehim that it he does no shall prosecute him, and that he is board by one of the beganning that cover; if he does not do so we can produce him. 3121. Supposing he note hid of that cove, have you also meets of influency her—and sufficient means. I commitmed to the West Billing County County if I have such a new to he have generalised, editing them to

I have such a cow is bring streams of, tending them to be on the look out.

3.122. Have they a veterinary inspector belonging to the West Biding County Council — No. It is restore a play. I want combination between the West Ridding and otherwise. A few years not the West Rading

a pily. I want construction between the West Ridding and convolves. Here years ago the West and Rissis Millings, and seem from years ago the West and Rissis Millings, and seem from years and the seem as investigation as to only bestudy, agreed to have an investigation as to only bestudy of milli. A very imperiant report was induced. It should like the same people to seary on further accomplisions with regard to turberelices mills.

31133. Suppose there was an outbreak of enterior on a million. Have you power to go on that farm and countrie the people handling the milk by the Widal inst9-L don't know how for our powers would go but 13134. You would try it on't. You're

we should do it.

3193. Yes would by it on? Tex: we should by it
under the Infection Disease (Prevention) Act.

3193. Ye would try it on get the power yes would like
it, especially it you wanted to discover whether three

The state of the s

at I and settlement power would be to get him baseled at 31 miles of the settlement for convergence—if these was Boncoos, weefal it not be easy to compel form to conduct where the settlement is not be used to see a way that a benefit of magistrates one make a publicae effect where the settlement owing his Boncoo consists he does not settlement owing his Boncoo consists he does not be settlement of the set

Sills. But then the healthest might be expected by the season—I would be extremely hard.

Silly, Mr. Casswarz.—Have you say difficulty with wealthe of your print?—There is a good dast of the season of the season of the season of the season fertuants in heaving one or two very size improving, who we quick in getting the real crystall, improving the sea quick in getting the real crystall, improving the season of the difference between the normality of the season of the Leader—These is a smallership difference. The

Locate-Artest in a considerable difference. The analysis of the second s

STIM. If you examine a sample of mile, and you find that it is defined to easily, what form of entitlessed do you give? Be you state that form of extilinate do you give? Be you state that form of extincts in the control of the cont

supersect milk?—The analyst states the proportion in such case.

SII35. But semetimes he says that a certain preceivings of at hos been abstencted, and in surface routhat a certain percentage of water has been added.

All D. J. have seen a report where milk was under stree per sant, in the marriage, it has ease would per certify affect where the street was record to certified abstracted that if the total action were contributed by the street was a second of the rate of the street was above to the street was to milk old in Leads as an arrive of food?—The D. F. and press authority on bely soften; uses if the feeting and the street was the street was the street feeting and the street was the street was the street detail. It is also that the street was the street was the date. He sold means, but he stde mergante to the date. He sold means, the the stde mergante to the

milk sold in Leeds as an enticle of tool?—Yes. Dr. Hall, a great assistantly on buby rolliers, uses it for feeting subsol children, but he selds mergantus to the He bobs upon it as rather a mately thrap.

If the Do you consider that a wholescene article of the children of the children

21140. Have you heard separated milk handly upoken of an unwholesome as a herrenge?—No; I have had no ecomplaints. But I look on it so a poor thing. 21141. I understood you to say that in cases where manus other than kabereslock, say, typhoil fever, you sent that farm as if it were infected with telescolour. into that farm at if if were infected with deborrations, and end some one set to make an examination T-Ver. 1142. Although you have not legal powerf—I think we have legal power. If we suspect that nift is beinging as infectious disease both Leeds, I think we have power to go under the Infactions Diseases (Pre-respond Act, 1899, an adoptive Act.

vention Act, 1899, an adoptive Act.

III48. You think you have sufficient you've sizedy?

III48. He have been a matter of fact, we have serve had so story it out to the full by gotting a magnituste's order. We storply so to the piece, and they allow us to go recent without a magnituste's order. We storply so to the piece, and they allow us to go recent without a magnituste's order. With one or two darymans there is an arrangement, so part of the contract of allowing milk in Locks, that shall allow the enterpo of the medical officer of

health and life excittent at our time. That is much of Silest. But you see not no the habit of using any such power of inspection unless you suspect them is assumating stoke with the furnit-I think we should have rather a difficulty in going to a farmer and saying that we wanted to examine his milk simply because it

was coming into Leeds. But we should do it on vary all 46. What power have you in addition to stop the sile of milk when you find there is infectious disease on the firm? I suppose you prevent the milk coming into Leedel's—We should not actually stop the milk if we found the ensec; we should stop the came. If we found a person suffering from typhoid, or a person suspected of having remnily suffered from typhoid, we supercon or having remove strated man symbols, we should include that person, and allow the milk supply to go on. There is not much difficulty, as a rule, in facing out whether a person concerned with the mile supply bus soffered, or is suffering, from an infections disease. With regard to diphtherin we had a little difficulty for some time. A dairymen in Leeds was

beying milk from two farms. His wife distributed our apply and he distributed the other, and the diphtheria occurred entirely in his district. On the farm from which the milk ourse we could not find anybody who which the milk ourse we could not find anybody who was ill, or who confused to having sore throat. We stopped the milk altogether for a fortnight, and there were no fresh cases of diphtheria in that district, except where there had been eases in the same houses. Then the keel authority disinfected the covoled, and claused it all down, and, everything appearing to be all right, we allowed the unlik to some back. But before a week we allowed the mills to come bath. But hadron a week independent will have been asset of displications and we displaced the mills spales. It thus asked my amoutant to go and this spales have been asked my amoutant to go and this spales have been asked my amoutant to go and the spales have been asked my amoutant of the spales and the spales are the spales and the spales are the spales and allowed the retill to come book, and there was no further complials. But we ought to have done that as first, atthirt them stop the main from smoling his mills in. I was a fault, and heccure I was a fault it and to remove to the clarasy method of atopping the milk altogether. oftensy method of stopping the milk altogether. If convergence is the Corporation to pay excepting to the sum by way of composition for elopying his milk. He wis not settly knowingly to be six not know anyone was enforing from alphanetin on his form. We also compound the mass who cold the milk. If was not a large amount in either cases, but it was, no doubt, plasting in them to feel this they were regarded as

\$1140. In the case of the separated milk yes were speaking of, was it primary separated milk or sidmmed milk that was mixed?—I exerct tell which they get, of the payment of compensation, no exertice was relact?-No question was relact.

Dr. J. SPOTTISWOODE CAMESON,-Tth No. but both separated milk and skimmed milk are sold. Ac a general rule, I think it is skimmed milk where rt is used so on adultorant. is used as an accurrant.

\$1147. To preserved milk sold in Leeds to any extent?

You; very largely. Yea; very hegaly. 31148. Is that full milk?—There is a great deal of Smar milk sold.

\$1140. For soft with roger added?—Yes.
\$1150. Is that used a good deal by the working
dances?—Yes. The tin is used only occasionally, and

that makes iss use very objects only, for it means that the tin is kept open for a kent time.

31131. Lody Evgnans.—Is sufft powder sold?.—To Strok Ser Servan Weconorus.—Are milk S1102. See Senware Wecomorus.—Are milk pre-servatives allowed in Lords?—No: I do not think we

later any.

21133. Mr. Cusrenna.—In that not because of the
21133. Mr. Cusrenna.—In that not because of the
recent Order?—I do not thank so. I do not think they
have been used to any large extent in Lecia for 20
years. I always not the stalyst to report any such
have now may for.

cause there are very fore.

3.1144. There we quite recently a new Order with respect to preservatives, were three not1-Yes it is 1.014. The property of the pr lous esser 33157. No; of the diphtheria conft....I think that

30.007. Not of the diphtheria meet—I thick that would be sight or too years ago.
30.183. Frithaps I cought not to sait the question, bot has it been made site subject of audit by the Local Covenment Board Auditor, and has it been passed on legitimate expenditure?—We do not hove anything about the Local Covenment, duction in Locals. seven are noted overstoomered Auditor in Londo.

20120. Does the not stuffly your accounts—Not sample the occounts of the Education Department.

Franchise the occounts of the Education Department.

Franchise of the suppositions as also by the Congestion of the supposition of the Scheduler Department are someomed.

Education Department are someomed.

Description Department are someomed.

period except education. What taken the plane of the field. Miss MONIZIA.—What taken the plane of the Local Government Found smilit?—We have the Local Mayor's smilitor, and our own auditor. I deremy the ocal Government Board would warry us if they could

hart they common.

\$1162. The Changuan.—In there my question mised on sudit as to the legality of the expenditure?—There have been no such question raised in regard to milk Our difficulty is not so much with the trad one. If I may say so without offence, with the Torm Oldrik, who is the legal advisor to the Corporation. In Gletis, who is the legal sawher to the Corporation. In this particular instruct of Inver quoted of the experiment we wanted to run, the Toura Clerk was saled, as a nation of law, to rule relative we had a right to do it or not, and he said, "No." If he had not been saided for a suiting we should have goes though with it, and there would have been no toucht with the saids. Or occeed, I believe the Toura Clerk was quite saids. Of occeed, I believe the Toura Clerk was quite szili. Of ecces, I believe the Zeur Chen'r va quirell in his reliqui unfectionably we asked him. As we also also have a silvent and the series of the control of the Zeur Chen. As we have a locale about the tegratury of expenditure again do not the Zeur Chen.—As to the question of relating the control of the Zeur Chen.—As to the question of relating variety, but I third I on sight in asying that there are a significant of the control of t 31164. At all events, in the case you have mentioned

Mr. James A. Dixon, M.B.C.V.S., exemical.

51163. The CHARGERS, —You are Veterinary Inspector to the Lands Corporation, Mr. Dimon?—Yes. 31166. How long have you held that appointment?—A 31168. Have you much difficulty in counting that those who are engaged in the milking of the core and the handling of the milk me cleanly and coardal in their habits, so as to save the milk from first and con-tamination 1—Thus result; fails within the duties of my Rule more than seven years. 31167. And you have been carrying out under the terms of your appointment the examination of the verices herds supplying milk to the city?—Yes. colleague, the dairies' inspector

\$1169. It is no part of your administration?- I said:

122

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thus, each, if he is not with mes, I will have when I see through one of might Day, befollow, my determ near the section of the latest and all chain mattern are left to the determination of the determination of the determination of the determination of the world desirie to sent Are the people continue in the behalf-when one continue that the determination of the d
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Mr. Janes A. Denos.-Tth Neuember, 1912.

at 1176, figure yet in the non-level confession as in indication of the conditions to in formal or part surface? —Yet; his I do not raply the tubersalin test fir my own information in dealing with solicular suffacing from teleproteon of the solice. I use it then really as a parting law with one. I use it then really as a getting law with one. I use, and, very frequently, aprillage law with one. I use, and, very frequently, all 178, 30 you find any of the frames reliating the settle-discuss on. Some do not believe to it.

gatting has with one.

31275. By you find any of the farmers relating the
test?—Score do. Score do not believe in 16.
18127. Professor Mercuss.—Why?—Pure [sportness.
18128. They think it a bestelless find, the result of
which makes no difference to your consumers?—
Exactly.
18119. The CRIMENSU—Do you often have an appro-

Silly. The CHIEFART—WE yet man were the vaportractly of Silvening up the test by a post worker exaconsition—Firity inequantly. Sillso, Haw you had many instances in which the post moview did not show the conditions you expected to find from the result of the test—No. It has never field.

Sillso, And for that reason you are, of course, rather \$1101. And for that reason you are, of course, rather

as 1181. Led for that respon you are at cross, raises a farm labors in the elifactacy of the blockening and the laborator in the elifactacy of the blockening the confidence of the sadmark to which is applied.—Text.

51181. What other methods do you apply persteadly to confidence of the blockening text to searchin the confidence of the blockening text to searchin the form of the person of the blockening of the original constitution of the blockening of the elifaboral constitution of the form of the elifaboral constitution of the elifabo

consists. Do you find above impress, as risk, willing to cooperate with your Do thirty, for extensity, drong to cooperate with the role before yet absolute it a core which it not belong well be filled. Professional will be supported by the result of the results of

byte in the white?—We is the common three we time. It is a subject to the common three with the subject to the common three when the cover are not be byte?—Lea.—It is the cover are not be the cover and the cover are the cover are the cover are the cover and the cove

local arisbority raised some point shoch sheig notified.

\$194. Do you emmine cases in a district in which the local arisbority has a reteninary officer?—We want some raise the boundary of Bendford.

Xer.

one made the boundary of Benderd.

Silvi. Where they have a veterinary inspector?—
Yet.

Silvi. Were they seeding sails into Locals?—Xes; it is a farm font over the boundary, but more securitie for Local than Benderd.

Silvi. By Mr. Catroniz.—You have cover in the

their own engly of milk.

2110. Their is in soy he Nerth Billing.— No; there are all the control of the control of their sound of their sound

officer?---Yes; but in these populous parts they consume

integers to energy out attractional alterations you of considerate sources /—Include this state of the matter is the matter in the duty integentor, and is it thou fail to the method officer of large. In the state of the matter of large in the state of large, and is it thou fail to the method officer of large. In this state of large, the state of large in the state of large in the large in the

James Professor Service—Than has solving to do a fine the professor of the

Sillia. And no pressures is improved on a suggestion model by yet or your colleague as to the condition of model by yet or your colleague as to the condition of model. The property of the pr

- BRIT, and who has to see that certain things are doors.—Lie.

- SRIEs. In what reconstage of cases is it afficiations.—

- SRIEs. In what reconstage of cases is it afficiations.—

- SRIES. In what reconstage of the general again to the second of the se

success districts on the becomewren of certain entained the braviling of cubils in securities in left to carry out the bravillar of cubils in securities and complete in left to carry out the complete of the carry out the control of the carry of the control of the carry of the c

Baselin, Neil Augustaness and govern great house trained in the control of the co

#IDEA AND MAKE YOUR DE COPIES TO TOME CHARGE WHICH AND MAKE YOUR DE CORREST SUPPLY—XE TO A STATE OF THE CONTROL OF THE CONTROL

They are

21280. You find no difficulty in getting people to y out your requirements?—No, not these use have 1281. What air-space do you demond for these *—In town counteds we require about our 21251. What at

covers—In town counteds we require shout our thousand orthe feet. We get that, by regulation. 1919. That is what you reporte when you are erecting new shouls—Yes. NIME. What are were satisfied with in old sheds?-Or even less than that?-No; we generally

ct about 800 feet. They come in after the third salf es a rule, and the They come in after the terre carries a rise, and the most common system and the best paying is " milk an fard." The life in Lords in about my to time normalis. wilk and

31234. Then they send them to the abstror?—Yes, 31257. You see the chief improtor there?—Yes, 31236. Do you find many cases of tokeroxicals coming

from the York sees.

a julie. Be you find many cases of unbermaints coming, in—Not near from Land cover only free?—For 1216, the first three companies of the first three companies. The first three companies of the first three companies. It has never been able to make a satisfactory commissed of the running was a satisfactory commissed of the running was a satisfactory. They go to other plants of the first three country about Skepten and Warthilds. A let come country about Skepten and Warthilds. A let come country about Skepten and Warthilds.

om the 10th acce. 51242. About how much milk would they give?—

They must give three guillors a day to pay.

The Commission adjourned at 0.45 p.m. till the following day.

METTAM, BSC, P.B.CV.S.

FIFTY-FIFTH DAY:-FRIDAY, 818 NOVEMBER, 1912.

The Commissioners resumed their Sitting at the Town Hell, Manchester, at 10 a.m. Present :-- P. J. O'NEILL, Esq. (Chritman); LADY EVERARD; MISS MARGARET McNEILL; Sir Stewart

S. W. STRANGE, Esq., Secretary.

are due to mesters which have been injusted, I do not say necessarily milk, but mesters which have been taken into the digrative system, and it is at that period \$1264. The CHARGEST .- You are Medical Officer of Health for the City of Manchester?-Yes. Commission had a most interesting SILES. The Commission had a most interesting account systemly from your esterious; officer, Mr. Britishank, of the elevamentances leading up to the period when the Munchester Corporation applied for editional powers to control the milk supply of the dity. Mr. Britishank give us a very interesting and extremely looks account of all the observationers between life that this enormous reduction has taken place

extremely load account of all the observationers better; con the situation from the point of view of the milk producer, and if you would be good enough to lake any the same questions from the polithe health point of view it would be most insteading and informing to the Commission. The dath-rote at the time, post-frombelly place time to the population of these powers, would, if why approximately the property of the powers, would, if place since the application of these powers, would, I may suggest, be nettocalled interesting from our point of view.—Well, I have not the figures with me, but I have give you a brief orthine of what has below place. There has been a continuous full in the infantile deathrate form tubercularis, and a very remarkable full If we take the last fifteen years or so, I think the at we take the internation years or so, I seems use death-rate at the present time of children under one year of age from subercolosis is about half of the average; not half of what it was at the beginning, but average which, of course, is a very great reduction. That continues up to the age of five. Very extrinuely it does not extend beyond that period. When cuircus) is does not extend beyond this period. When you come to the age period, five to four-tene years, you get very little, if any, reduction in the death-rate form other forms of twice-coalest these philatis. As you are aware, of course, the forms of inherecolouts other than philatis very much prepondeste to the carry periods of life, and a good many of these forms or evolumbedly commended with food, that is to say, they

rate emergy jointy editions is so very great that it is out of all proportion to the reduction in publishis which has taken place in inter-years. It seems to me probable that both influences have been at work, and that the into both imminus the both is very, and that the improvement in the milk has played a very large share. That is the impression I have received. 31207. The Comment.—If milk forms such a stacks article of food for infinite and children of tender years. is it not resonable to expans that the enormous there are two factors at work.

82288. They prefer that to cowe mile? Or is is proper?—I do not think it is cheaper. The reason it is used in that it is so handy.

31245. They keep them up to that as long as they

can r-res. \$1244. And what is their breed?—They are nearly all arous bred shorthorns. We have now tapped a new source of supply in Hersford. We get a sprinking of cross-bred Hersfords.

51245. Are they producing as much milk?—No. 51246. Do these town go out to gran?—Most of them.

31249. The CRASSICKS. Do they liberate them in the allow. The CHARMOSH.—Do they liberate men in the winter season?—In root cause they turn them cost for half an hort or a little longer while they clean out the shells. Up to this time of the year, hencer, all our corn are out two or three hours o day.

\$1250. Profesor Moreau.—Has those been any shortage of milk in rooms years?—Oh, yes. In the dry stater.

81261. Have poor people any difficulty in getting
ille? Do they use as much as they would like?—They are getting more and more into the use of timed milk 57152. Swiss milk 5—Yes.

\$1247. In the symmetries 3.—Test most of them. \$1248. How for have they to go to the pastures? There are not got yellow bear half a doner shoke in our life which have not got great nice and bands. They a

really in comi-rural parts with fields just behind

WOODSOUTE, M.D.; ALEO, WILSON, ESC.; J. R. CANTENLL, ESC., R.C.; and Professor A. R.

Dr. James Krynn, Medical Officer of Health for the City of Manchester, examined.

51256. Professor Marran.—Can you tell us whether the interest is because to furnate. The custom, that is, a difficulty consists to bedween the Tempeloude of the filtering tensions to obtain the tempeloude of the interest to the districtions of the literature of the literature

is in not resonable to suppose that me enormous decrease in the destharate is consequent upon the improved condition of the milk with which they are poursished?—I have tried to make it clear to you that

\$2258. Is it not research to measure that that is a leading factor?-I think the facts point to that being a leading factor. But you have to explain why fare is no such reduction between the ages of five and four-ion. Mr. Britishmak has already take of NYs and Sources. Acc. consciousnic tile no many ear-yon which has taken place in regard to milk; that we have not only had a reduction us the number of ones-found to be tuberculous, but that the difference has been detected at a model earlier edge than it used to be. The results is that the children, who are getting the infection are getting it in much smaller doses. general, you may measure that inherculous is for result of repeated infections. It therefore stand resear with that condition of the malk supply, you are going to get the infection of the child, riwill take longer to produce that infection, so that you got the period of infection intured. That get the period of inscriber reference, and would, to some extent, explain why you do not get would, to some overent, emploin why you do not get reduction in a later age, falliangly you have such us essemings reduction at the earlier age. I am not able to part with the paper I fold in my bank, but thus-tables above what an enormous evolution has taken place. It shows the infinitely mortality from from of twherefolion other than publishes, and the course of the

reduction in encreasive years at the age periods.

31250. If you would be good enough to read the table. so that we may have them on the noise, it would add to the information of the Commission. You might give us the figures for a certain number of years?—In 1991 the um againes for a certain number of yearst—In 1991 the death-rate under one year, per throusand births, from taberculade was 11.04; in 1892, 18.05; in 1893, 11.75; in 10.84 : and in 1805, 11.58. That was the nerical 1894; 16.44; rask in 1893, 11.38. That was the period which we have an expension sequents therecales a which we have a result of the period of ere, but, of course, it finctiones from year to year. 31262. But the general figures indicate a very steady

31300. But the ground figures indicates o very stancy of regid definite?—That is no. 31361. Mr. Winson.—Wordly you correlate with the Milkowski of the black of the stance of the proof to be observed in the stance of the stance to carreits a real seperation or with milk supply, and in all visits to the forces. Mr. Enittlebank has been shill to carry out a good leaf of susprucible. You seem may one correlate it from your to you with the sumber of samples of tablecolosis milk? 100 but on many relationship at all that you can 1—I have not attended to the control of the co

serelly or with special relation to sumplions same?... They had no relation whatever to mapping a case; they were taken purely as a matter of contine administra-

Milled A matter of rective?—Tex. When I my show we have never done to it is not evicle right. But where we have have 8, 10 to a inelgoid-mat that it allows the matter have 8, 10 to a inelgoid-mat that it allows. The common that it is not traced any on-least of infections disease, sarrier force or displated to the mille supple?—No. Gar. I have no distance to the milled supple?—No. Gar. I have no distance one exception. A slight one did sever shout for your ago, chiefy in Soliden. The sulligation is the years ago, chiefy in Soliden. The sulligation is the years are traced in the sulling of the sullin 31264. A matter of contine?-Yes, in the adjoining district, though a few were in Manchester. That was very clearly traced in my mind, we were not able to get adjectific evidence it shough we deer not same to goe accounts everyoned the wide

the milliscoller having an attack of exteris and he wide menting him and handling the milling to lines recom-ming the million of the million of the have had see at the constraint where the million of the have bloroughly investigated. There was see one throughly investigated. There was see com-tracting the million of the up in one place and supplier, and wherever the wrist a see of typical energies on. But disappeared for a same of typical energies on. sumber of years, and now the has made her superannee

\$1907. Was she connected with the milk trade? - She wes not.

81298. Its you find any bostfuty manifested by people to grom you desize to apply the Wital test?—Be you mean with respect to corners? Any onlinery test would

mean with respect to commons and author for this. With a test. 81900. No. 15 was with regard to the With test. 81900. No. 15 was with regard to the With test. Occasionally they object. They make as much has about it as about the taking off of a line. No general we get that a good deal. But not infrequently we have the test. The test of weather there is no test. should it as about the passing on the same and the region of that a good deal. But not infrequently we have a whole family tested, and practically there is no difficulty. But that is done through the medical

practitioner who influences the people S1970. Has any public authority in Meschester over reads the attempt to provide a milt supply or cheapen the existing milk surply for the metastral population? Have they ever made any contribution from the rates or other sources to changes the supply of milk to the industrial population?—Not that I are sweet of. The Peor Law Grandinas in ortain cases, recommended by their medical officers, have supplied milk to poor

Sk273. What I had in my mind was the establishment a depot for distributing unlik at reduced rates to of a depot for distributing milk as reduced rates to people; in measurement results are all the measurements of the measurements of the matter had recently a good olasi of consideration in this city, and an attempt one made to laring about a better milk surpsity, as I, full in a repear describe, as parando by Banck in Operatingen. A beautiful duty was exceled with the increases a proper necessity was exceed with the necessary applicace. It was a volcutary company, and it started on much the same lines as Busck. Unfortunately it did not receive the pecuniary support which would have carried in through a difficult period, and putely for programy reasons it was given up. There was to other mason. It was management that it was on the way to moreous. Familia communited at the heginning were countersailed, but the expense was great.

S1272. Mr. Wrasex. Do you happen to remember the rotal price of the milh? I think it was the same 31378. Wee the cost of distribution applemented by pirlantinople effort?—No. The procedure was to ren-A as a business from the commercial peace of the It was started by gratherness who had no other object than to improve the public leadth. They did not want than to improve the public health. and they bound themselves not to make a greater profit and they bound threase term monous and was to improve than fave per cent. The inhele object was to improve the public health. I have all their the set had a good deal to do with it. There was no pectulary interest

31274. Mise McNaux,-Wes it carried on for may outh of time?-Two or three years. 31376. The Cuamoan,—Who it in a district where the industrial population propositiontod?—It was begin all over the city. Branch had a special system of orthe dashe. It was a replies of the Essect system, and if it had succeeded it would have produced a profound infração upon the milk supply of Manchester. It

31278, Locky Evenane, Was the administration sight? Who should it full if there was a large demand? That is a matter I one searcely decreas. I think there were seems faults at the beginning, but such faults as there were twee fully occurbenced, and the malk supply in the end was ideal. Of course, a good Of coune, a good deal of opposition would be stored up.

51277. Professor Merray.—Can you tell as soything a regard to the condition of the wilk other time es against tobercolous infection? In it along?—Ob, yesingurals interculous intection? In it clean?—Oh, yea. That is just as siriking a feature of these operations, or even more siriking then the improvement in record to tokeroulous. You will hear of that from or area and allowing man be improved in regard to toherculosis. You will hear of that from Professor Deligine, who has written an associat of the obsaultiess of the rall's apply. Professor Deligins has carried out a systematic examination of the milk he has Those investigations are embedied in a statement, in fact, in several etatements. The result of the operations unquestionably has been to reduce enormously the tions unquestionizally has seen to recome ecomously un-ministry of dirt coming into the sixty with the milk. That, of ecurse, is very largely due to the listroction given by Mr. Brittlebank, the referrinary surgeon, when going round the farms. The figures seem to show that

Dr. James Mayre, ... 864 November, 1912

whereas in 1897 about 17 per cent, of the miles coming joio the city were found by Professor Deligine to be pair the city were featual by Professor Deligine to be very dirty, in 1906, when this raper which I are expeditely was written, the proportion was only 8 per cent. I do not think it is necessary top oney territor-tion the figures. But not only is that no; even more striking is the reduction in the disconspondential property of the nulls apart from tolorentholis. That is n agito as great a proportion as the reduction of the

dirt. Perhaps, in you are going to hear Professor Deligine that pemplates may be of service. (Handed in.)
S1270. Professor Merron,—I take at that during recent years, and other your impection has been so

age fel and so rigorous, the manual of tuberculous milk comming note the city loss fallou?—Oh, very much. Of comme, it varies. Signa, It varies.

30270. Il fluctuation from time to Sine?—Yes; but
you is now. But the number of triberenism samples
is no measure at all of the amount of indeoless corning
too the only. Mr. Bratchinsks now finish that he is ship to detect the finence in the cow at a much realist sings then farmely. The samples which are below at stational when fallowed up lead him to the disease in the cow at a very much earlier stage than used fermerly to be the case, so that, of course, all that great mass of infection which formerly series in as the cow great

indection which formerly error in an the cow grow wome and wreee, as the ultim became more and more demand, is now avoided. It is getting to be the evception zero to find advanced tuberculosis of the while, whereas formerly, I believe, it was the rule; of book, it was very common. Here it is quite on beat, it was very common. Now it is quite assoptional. Too see the relations is out of all proportion to that shown by the number of samples. portion to that shows by the number of samples.

\$1290. That is the explanation, then, of the gradual dissinution of infocalile toboroclosis in the first firm commission of processe troopersons in the first two pures?—Of cores, there has been a great reduction of the amount of indexted malls consumed, and there has

leve a very much greater reduction in the number of ole backlit engraned in that milk. taberole haddle continued in that milk.

31231. Then you do not think three is a relationship
between the consumption of milk and the incidence of
teneruchasts—3 do think, as I have already stated,
that there are two fasters at work. In my opinion,
milk has exceeded an important influence, for I think
it would be vary maying to overlook entirely the

reduction in human infection as a factor. Probably the improvement in the milk has been the resignizant 81282. Take the age period, five to fourteen. What is the nature of the infection in that period, business

or bovine?-Well, is would be partly the one and portly or commer.—Well, it mount to partly the one and partly the other.

31283. Too think it is postably due in that period to latent teleprochosis acquired during the fast fire-venn?—Yes: I do.

31284. That is the growing period, and the period ben probably insufficient food is taken?-Well, but that arolles themselout. \$1380. Do the feets you have given us apply to any particular recitor of the population, poor or rich?—No; then apply to all ages. \$1390. And to all sections of society?—Yon; there is

so distinction made in the figures. 81287. Then as regards the incidence in adult lid from 22 to 44 years of age—that is the period of what one might sell human infestion?—Yes: has then 34

would not be confined to human. 31288. Not entirely?—No: because a great man people takes graft after the age of delidbood, an childbood, and

although the infection of milk would be very much reduced in that period, it might atill be in evidence. \$1589. But milk is a food of youth rather then of adult age !- That is so. \$1993. The only time when milk is given as a food

masses, and only time when more is given as a 1000 in abits life is when a person is [119—A great many people take milk all their life. 31201. As a beverage?-Yes. You have only to go pleases of milk to see to what extent the population owners milk beyond shillhood. I skink it is very small compared with the consumption during child-life, but still there is a certain amount of continued consemption of mills

\$1292. Yes; but if you were to look into the questio in it not more than likely that tubarculous found in the human being of middle age would be of human

before on rather than boring?—That is so. I timple that the becterological examination of discharges shows that complained; that is to say, if you grant shows that community; that is to say, as you grains there is any distillation between botters and frimms tuberculous, and botter tolerculous does not change in the bounas. If you except that view, the hasterplegical excursions of the discharges is showlettly combinise that tolerculous in salut it as largely due

conditioning the state of the control of the control of the control of the collection of the collectio Manchester milk is supposed to be very good.

S1295. How is that dealt with under year Corpossition?—That is teamsuted by the Sanitary Superintendent who has charge of the Sale of Food and Drugs.

tendated which has charge of the Sale of Food and Drugs Art. He has long-corn in thing, samples, which are submitted to the Public Analysis, who distrimines submitted to the Public Analysis, who distrimines whether fack has been resourced very arbitected, and whether fack has been resourced. Silico. You are not able to speak with discost know-ledge with negation that has jeeney with discost know-ledge with negation that has jeeney with the regard to the figures published every year. C1260. Which come below you?—Which some before C1260. Which come below you?—Which some before

ince.

10.977. Are there may figures showing the composition and the quality of the milk N—There are no figures showing the composition of the milk; unfortunately the composition is not published. The only internation we get in information as to whether solutions in the property of the control of the milk of the control of the milk of the control of the milk of the control of th been penetised or not not do not get the percentage of fat sed the percentage of solids not fatty. That kind

of information is not, of course, commenly given by 31239. Has there been any trouble with adultionation, James need to be any toyoto with accessibility. I mean people scating in adultiented milit—Ob, dear, yes! There are peacoulitons going on constantly. But will the proportion of samples found to be adultment on Manchester and Selfrod by the Public Analyst is ubset the harvest to England; it is much lower than

properties in London. \$1209. Do you become to know what was of fine indicted for adulteration?—Well, they are small. I con give you an idea. In the year 1911 the number fixed was 37, and the total fixes imposed amounted in flood was 27, and the total fines imposed amounted to 1800. Do you can die also there is one year was also 1800. Do you can die also there is one year was also 1800. Do you can die also there is one year was also proposed the second to the flower, take is to say, see the proposed was also the proposed to the proposed with contrast affect in year and many proposed with contrast affect in year flow position would be would be greatly improved if you could get a begge rapply of all the fact was verying opposition—Sille is not perply of all the fact was verying opposition—Sille in the

supply of mile for me worsing populations—nouse in vary cheep in Manchester. \$1502 Lady Evenano.—But do you think the mothers realise the value of milk as a food for their ehildren?-Oh, yes

\$1500. Do you think they realize its value sheelertely as an article of food?—Yes; I should may so. They are well educated. It is not for want of education that they do not use more; there are many fectors which 31904. Mr. Campuna. But there is no want of milk.

and the price is not orate of the city, I t price is not prohibility; bd. a quart in the the city, I flank we were said pasterday?— iid., I understand, and 4d. in the batter residential destricts. That is very cheen, \$1000. You do not know whether young children am-bring hardly fed oring to the fast that their mothers argely them with condensed milk and nosh things? Has that ever come before you?—You undertunistly, I have not proposed any figures, but I believe I could

I have not prepared any figures, but I belove I could get you a corporative statement, showing the distinc-neous by which shikimon were found to be fed or visitor. I carry yellor took, bowers, that the health visitors will probably have very little access to that clear of the yellowlike who are not giving the other clear of the yellowlike who are not giving the other clear of the yellowlike who are not giving the other that prevents children guising milt. There are other factors. Do you desire to have such figures?

13506. I do not think we need sak you to so to that tecults, Dr. Niver. A general exponence of cycnion will tecuble, Dr. Mives. A general superssion of opinion will do. I really wanted to get to know whether that problem does foce you here?—It exists everywhere, and I see afraid it will continue to exist, swee supposing you

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distributed the milk free to merrow.

Dr. James Naves .- 8th Nonember, 1912.

\$1507. Sir Syrwer Woosnoren.—You have a meetality from sommer diarrhess smooget the children in Handasser, I promose?—Xou we have had it vers

\$1308. Has that mortality been lessening in recent years, my, compared with fire or ten years ngo?—Last year, I think we had one of the highest mortalities distribut that Manphester has ever experienced. \$1509. Man McNorra......But that was not confine

to Manchester; there was a general mercase, I thank! \$1310. Sir Serware Woodmoran.—Do you attribute and the increase has your to emergicant heat or any other special or see?—Well, of course, best correlate its small influence. I see the mortality is exceptionally less this

infrance. I so the mortality is receptionally low this year, and I think it is directable on the average. BISIL Do you statistic infantile discretize to milk, or is it a comblevable factor in this discret?—Milk as a medium by which germs are conveyed.

Missis by which germs are conveyed.

33.32. Are there my special precautions in
Mandretter in surmor to combat the Stolling to
summer distributes amongst dulidren, any special preestations with regard to relikt—The people are very
well instructed into to deal with the preparation of
foods. A certain amount of distribution of dried milk

has token place amongst the health visitues.

\$1515. Miss McNum...—From what source is that distribution mode?—Through the health visitors of the

34314. Probably much as in Sheffield. Do they kay 117...1 orbinia smannt has been given through the Sanitary Committee. But I believe there is a society Munchester.

in Munchestee.

31515. A philamitrosic society?—Yes; a halira'
gailit—a mothers' graid—which also distributes dried.

suits. I think it is also sold by them. man. A first is a size near up to the of your carefully controlled new mile? In it for convenience?—It is simply from the result of observation that dried milk seems to show very good truths in the feeding of

51377. Do you know anything of results produced in Manchester by its use?—It is difficult to draw condissens from a limited experience, but our experience, and that of the Mether's Guild, is favorable to the

use of dried milk ms a food.

31318. Sir Sraw or Woossecus, ... With the exception of lest year, you believe that summer distribut in distributing?—Yes. \$1819. Do you attribute that to exten core with the mik supply in respect of elecutions and freshness; bee of scene filing to do such the beauted amount of so, see a distributed "res. I their it has, but it is after a distributed "res. I their it has, but it is after a difficult question. We make great effects to got the milk beded, and I believe that is the vaint respects of insteams milk is coulded before being used by the children as food. It is restore difficult to one boy milk belong the food. It is restore difficult to one boy milk

indicates sums in discussed course over the course of the

31320. Is the scalding of milk done at home !- You 3133. After instruction by the health visitors?— These instructions see distributed by regarders to mothers when they go to register the birds of their children, whether they chance to follow the instructions

\$1992. In leader form?-Yes. \$1823. Lady Eventon.—Has the scalding or boiling of milk any injurious effect upon its nutritive quali-ties !- I am disposed to throw that mere scalding is 31824. You speak about this counting upon the floor.

I take it you do not approve of babies' confedera?-31725. Or of long tube bottles?-No. \$1326. Are they subject to infection?-Yes. third all bettles are. It would be a pity to pin one's

faith to a detail life that. You are limble to go an ordi-mary bottle neglected. The great thing is to have the atmost astantile care in feeding, but, of course, the long take bottle is more dangerous. \$1507. When the child is registered the mother is given a leaflet on tasky feeding and foods?—Yes, and arrest deal of instanction heatigs. The Methers'

Gulfd is exercising a powerful sufficence, and our health wisitors occupy their time criticely in the same work \$1308. The Churuan.—Thank you, Dr. Riven. 5 Commission is amon individed to you.

Dr. Nices.—There are one or two spections which you have not usked me so which I should like to express an opinion. I should like to express a very express an equation. I should like to express a very distinct opinion that it will not be possible by any other means to shall effectively with transcended in offset metals to non encourage value conversaons un corre without distillate etc. brug levels for the other enabentiam of tabetopicals from levels. I can concert of no other means or methods which will effectively deal with that peckers. Suppose you were to remove toom a bowd affected with tubercrissis all outtle from a bowl affected with tubertakes all cuttle detected on ordinary examination you would, I believe, leave a very considerable number affected, it many not be extensively, with tubesselssis, seal that remnant world writtee in a short period to contouring the whole hard again. As regards our own operations, I think norm again. As registly our own operations, I threat that we have leavily done as much as we seen do on three lines. Of corese, by beging it up we keep down the assumed of sinterensian indeeding, but I doubt if we can get much facilities. The north step must be the notice resolution from the leavil of theoreticals by macroscopic and from the leavil of theoreticals by macroscopic and the second of the seco of the taberrelin test in the hards of expenenced menand with all the precautions which our experience and that of modifin observant has feld as are necessary in order to effect that object. I think that since sin first experiments in Denmark we have had experience which tells us that much more realisal measures much be taken to effect the object. Until that object is effected, in my opinion we shall not be able to deal effectively with the progress of tobricularie. We may reduce it, as we

have done, but it is still three, and is still a series \$1509. The CRAITSTAN .-- Do you think that this matter is of such mational importance as to demand that the State should come to the assistance of the that the State should came to the assistance or one local bodies in carrying out the most relical remody for the distriction of tabevectors mirroit from the milk supply?—I think that the State is the proper body to deal with the condication of tuberculosis

\$1500. Is it, in your opinion, of sefficient impor-SUSSAL as 15, 18 year openion, or services amountained to the agracultural community and to the entire population. It is obviously important to the population, but it is also important corresponding to the agricultural populainhadry if an all I believe it wheld experasion an affectual expansion to our dairy instanty if an adventual step sould be taken in that direction. I admit that it is a difficult object, and that it requires to be parsend with every precaution and oner, but I do not see, no far an any discovery made up to the present time would mathe one to poly, any other way of adventing the prevention of tolerculous in delibert from mile. or any improvement of the deleting industry, except by the readlestion of telerrularia collecty from the hards

\$1501. And, great as the difficulty is, it should not be reposited as insurancentality—It is not insurancen-table. I think our own experience shows that. Hr. table. I three our own enjoyeens move that, are, Brittlebank for tendre years, as he has told you, has had the supervision of a local triple has been resimfree from telerroulous, and which has been profitable to the ferror. There can be no question of its large surmountable. But it is processry in the establishment of such a system that the character of the farmer who is called upon, in the first instance, to undertake those operations should be regarded as the prime consideration. That is of more importance, in my opinion, that all the other factors—brildings, sleek my opinion, tens an use other factors—brusings, stock, and overything one—concurred. I mean, you much have men of integrity who can be brusted, not only to

carry out the operations properly, but also to persist when they have once started. But that is not an insuperable difficulty.

Blood. Mr. Cameunt, What are you going to do with the man who has not got those condition — I are speaking of the outsyllishment of a clean bard. When you have once got it established, and proved its mo-cess, it will work by itself. What you have get to do is to establish the success of it, and my position is, that in establishing success you will have to take primarily mbo secount the charecter of the man who is convine

represent country and the second country and second them off for shoughter.

INSOL You was, the fact that my farm is perticularly clean, and my amphouses form a zer particularly bed, may only mean that I have thrown my discount outlies.

on my neighborses?-As I have sold, you can fetten the cettle for alonghiter.

the office for obespieler.

Sillect, You would not observed them, us the Sillect, You would not disruption, them I. We take the labels, provided that they see recover to such a distance as it as the a shape of the other centils.

The second of the second

ally enterested we must or Mr. mars some. SiSOT. Or if the milk from the resulting cown could a percollectly subjected to instinticipated examinaseek must impose on you duties that were not existent perfously. If you once aspennes a near's herd into personney. It you must apparate a first it hard multi-see halves, one known to be teberoulous, and the other and tuberoulous, then you must take greater pre-entions than you took before, in regard to the tuper-calcus half. I think that follows, for, after all, you occur when the property of the compared of the

see consentrating your full-results in can park of the health. But, when you have divined your heal fato, \$2550 But, when you have divined your heal fato, the recovery collected may book as arried as the others—As I have sold, I should have no objective to their second to be milled, perioded a delay semains— to the second of the second of the semains of \$2500. You say a state constitution—Public, cer-sistent of the second of the semains of the second of \$2500. You say a state constitution—Public, cer-

\$1.540. But a daily exemination would be a coulty bing, would it not? I mean a bedeviolated exthing, would it not? I mean a becteriological ex-emination?—For what meriod do you apprend this 31341. Until the core are ready to go to the alough-fer house?—That is to say, about three mouths.

51342. I think it would be more than that?-Well. it would be expensive, no doubt. But, of course, this it would be expensive, no nough. Due, or worse, w is an important operation you are empling through. 31343. Professor Marram.—Would it not suffice, if you were to pesteuries this milk daily?—Yes, or scald it.

small it.

Blists, I mean, if you were to treat it for such a way
that the publication cognitions were hilled. Suppose
that the publication cognitions were hilled. Suppose
by the bullet of the property of t of course, I spills see that if you rushed these things you might produce a funder. But my size would be to proceed gradually and carefully. To obtain the complete aradiostica of taberancies, you would have

to extend your operations over a great number of years. Having established the thing on a definite footing, I would be content that we should feel our way further. \$1545. Mr. Campuna.-I see this great difficulty the Since Mr. Carrenta—I see this great difficulty six mornest you begin; what are you going to do with the receiling covery—I now a great difficulty, until none min of very great shill; covery, and enhancement, commo along and takes it up, and carries it through. The way so such a man I do not suppose it will be done. But when he comes it will get done. Meanwalls, I take it, that all we are considering now it withler it

cusht to be done. \$1846. Mr. Witness.-The man you refer to, I take Sided. Mr. Winner.—The men you where to, a text is, would be the admitted of agriculture, or some cerami-of the State?—No.; I do not say that. He may be a private individual, say a man with £50,000 a year, who wishes to do a good wark. A prefermen of that description, with knowledge and energy, would be used now likely to do it then a minister.

\$1547. Mr. CAMPERIA.—There say a very large num ber of farmers who are quite many to begin, provided that men in your position will show them what they are going to do with the resetting corn. I know for a feet their people are ready and auxious to begin with those work?—That, of course, is a very interesting que-lies. Perhaps Mr. Beltitebank could tell you come-

Dr. Janus Niver .-- 8th

thing observed it.

33148. We have had evaluate from Mr. Brittlebank, but he across up against a stone wall on this question of the meaning sone?—But he would be able to tell you of the reacting cover?—But he worse, he stoo to her you what has happened in the hard of which he has super-vision. What did Mr. Whelley do with his reselling

vision. Name on ar. wheney so with an reacting cows, Mr. Brittlebank?

Mr. Brittlebank.—In the sarly days they were un-doubtedly theses back on the nursies, but do a bate pariod, as I period out realerdry, they were killed. 31840. Mr. Commun.—At once?—Mr. Brittlebank.—No; within a compositively short bare.

hme.

33300. They were allowed to be milked until they
were fed up, and then they were butchered 8—
Mr. Britishank.—You.

\$1851. Are you extended to ellow that to go on in Mr. Brittlebenk.-Under the conditions I put yester-

ey. 31342. That the talk be scalded !--Mr. Britilebank.—That is be pestaurised, or rendered

Examination of Dr. Niven resumed.

31850. Mr. CARTPOULS,—If a man gots up at four in the mergang, or even at three, to milk, as he has to do in Deblin, as as to get the milk in the city by six o'clock. It is not much use falling about him analysis Mr milk. It takes him all his time to milk the quest—

mill?

31855. Yes: I would go as for an that. But I do not think you could sak the farmer to go to the expense of a delly lander-dological examination of the mill, essenting the workners surgeon less exembled the own, he' the veterinary surgeon has exemined his cown, not they appear to be all right, spert from the best? o; perhens that is rather a stringent condition

SIRMS. I think it is ?-- But suppose it was done once a work for three months. It would only more a metter \$1347. What does it cost to get a besteriological ex-amination made 5--Pritten shiftings.

\$1859. That is fifteen shiftings a week. Well, even gs a week. West, oven. But the trouble I see is has would be a concession. this, the moment is is known that cortain eacted, the farmer is regarded as a orinical if he sells reacted, the farmer is required as a criticisal it to sells a drop of nucl. from those even; notwithsteading the fast that hefere he tested them he was at Thety to send there until in an feedy as in little. I have a send the nucleus of the sell of the second term until in an area of the second term of the second ter

S1559. Oh, yee. I would my that these reacting cows rught to pass the reterinity surgeon in every respect, except the tuberculin test. But the cour respects, energy and balanceann tests. But the cover-may have rearied through some slight holiva in the meansteric glands, and they may be no more dangerous then cover which have not reached?—Such a cove may do no harm in regard to the suffix expely. But within a year 3 may have contaminated the heart. It is a very serious danger to heave it among the others.

31360. But the cow is going to go to the holeler as seen as the sullking period is over, do you see?—Quite so. I think my suggestion might meat the petrot that is, that the milk should be reasonably outstalled, and the cows should be examined periodiscilly by a

terimary surgeon-\$1561. And so long as the saimal is not obtainedly tederculous, so long at the wise/nary surgeon control find saything arong with her, that she should be allowed to yield milk for a period, and then go

of to the butcher?-I see to objection to that, beyond this, that you are concentrating your teleronious owns an one occurs of your hard, and, consequently, you much execute greater supervision. Albert Storgeos you mak the mile from the two aldes of the tyre, are you works off than you were below to Strely. Too have all your assumate concentrated in forty per cent. Then you have oppositived the whole virulence of the one headed parts of mile into the

those forty core. SEES. But it was there believe in the constitution point con of those cores develops indecessions of the ridder, which may begun as any monomit, then you have increased the mountary of the infection of the milk, from the spars of the hard, in the proportion of sea to four. You will here made the inchestway of the milk from that seek no feet he four. You will here made the inchestway of the milk from that seek no feet he form do all if \$2555. But it was there before in the comp?--Si

times as great.
S1584. But if it is to be mixed with the other name? The in cont

—It is use.

SINCE But why should it not be?—Oh, no.
SINCE But at the present time it is. Suppose
have a bundred cows, and sixty would reset if itself That is not intown, or only privately known. releting streets, speci from the test, eas find no-thing weeg with them. I can mix my nells, if I like, not send it is the city freely P—I think that is likely to lead to strictus ords. There is no man whose her has been separated to that maxim who would not herd has been reparated in that mirrors who would not take advantage of the feet to sall the rails he gets from the contributation areas on consumated free form

the non-inherentess come as guaranteed free from tuberculous. Such a man would have no right, under independent. The do a man would have no right, under say conference, to mar the suffic with the from the office part of the best.

The suffice part of the best.

The suffice part of the best.

The suffice part of the best.

If you miss, the milk of the suffice part It may be some theoreticals. It also are marked to produce the sound of the product of the produ is hes from most supercussion. I do not unjust to should be allowed to be mixed in any decumentances.

lep in any policy. S1870. My. Camp

51271. My difficulty is that if I test my core and by to segregate those which rears, you immediately im In signragous tomas hasses renth, you assessmently see pose new reincutations on one, restrictions which you do not impose on the man who does not test his cover. If a man does not test his cover, you are periodir soluted with the veterinery surgeon's inspection of there. But it a most does test his cover, you are not there. But it a most does test his cover, you are not them. But if a man does test has cown, you am not satisfied with the veterinery inspection, but you insist that he should take special procautions with regard to that he models the special prontingue with regions of the nationals which reach; it is not an imaginary diffi-only.—It is not imaginary, but it is temperary, and is one that can be get rid of by simple presentions. \$1872.8 Str. Strewart Woombrong.—You suggest

31387. The CRAIMARY.—Too are the assistent medi-cal officer of health for Liverpool?—Yes. I am survy Dr. Hoya is not able to come. He is engaged in cancon. 52888. We are grateful to you for your attendance.

that of a mum has a hard of stany cows, he should dreide is into two hards; that the milk of the non-tuberculous hard should be nold at a higher price, and the milk turn the tuberculous own paracuried — What will happen bo that this man will sell all the rall's which comes from the cowe free from toperculosis as " rearms teed milk." I would not allow other milk to be much teed milk. I would not allow other milk to be mused with 1 would not allow him to see the late often con-act certainty milk, on the understanding that it was rept under constant coultry, pretly by this with a large milk of the coultry pretly by the with the constant of course of partly by thing samples at the constant of the course of partly by thing samples at 25374. Mr. CANTENTI.—You are almost at my point. Would — Horse them to may the more large.

20134. Mr. COUPSIL—You are almost at my point. World you allow them to mat the treet—No. 20156. But suppose he does war the treet—No. 20156. But suppose he does war the two, and does not guarantie it, and sured it his as if he had never tested his could not do so, as a mather of fact, 180 could not do so, as a mather of fa that you get increased proces for the milk of this had you have got?—This particular farmer gets ingressed

SESTY. The ordered we have bed showbers in that is additional to get intermed price after a total has been all this trouble to select out-counting court—I always it is, but in the beautiful of the popularities, and not the fault of the popular II those intermeds in this statist took parts ab some the physicians personally which thay were deing; that thay had sourced a facility that thay were desiry that thay had sourced a facility that we have the size of the product on their facilities. \$2577. The evidence we kaye had alsowhere is that

culous mile, the physicians interested in children's hospitals would be led to recommend the rull. I am no other way to get the prices, nothing of this. It is an arti-Ordinary people know get the prices. Ordinary people arrow It is an artificial thing, but it is a neithing of this. It is an artificial thing, but it is a demand which can easily in consist.

11579, Professor Mirrian—Our physicians in the hopshot as the present time isolate on pure midt—I to not how. They did not one time.

11570, It is not these duty, easing that milk is a vehicle for telepowheath—The late Br. Aduly contict exist one when the professor is the contract of the out on extensive earmough for years on this subject out me executive commence for your an one was

opply. I do not know what more physicians can do. Silkel Lady Evenans —The supply to the bospitals should be above represent—In supply to the benefits should be above represent—In my opinion it should. \$1580. Mr. Carrenta.—Who gots the milk from this form?—The Corporation horselade. from her Tax Corporation hospitals.
31-355. You don't know whether any other hospitals allowed, the actual quality—I do not know the state quality—I do not know as a think and the a state quality—I do not know personally what their accurace at rapply as the state of the state o

31384. Do any private consumers pay an intreased rite by reveres of its being certified as fron from Mr. Brittleback (externening) .-- No, we do not admit ivate purchasers. Dr. Nissa.—If some were left over, the farmer would

be at liberty to dispose of it. I have beard of one or two other hards grassasted free from teherosicals, but this thing is not spreading as it should do. It will have to be spread by a most of character and energy. 31885. Lady Evenam.—Is it ignorance on the part 30390. LADY EVERANCE—38 to therefore on the pure of the constner; to they not realise tha danger?—They would be glied to get such rills, but they would have to be sure of it. If you do that, you will riske a great deal of opposition from a great many guariese. But you have got to oursine the accomments that there

\$1896. You have first got to convince the ornersery of his danger !- I think a good many are slreedy our-vinced of the danger. But it wants a good deal of vinces or the deager. But it wants a good deal of education, and I should think that the ductors are the people who could help. The CERTINES.-Think you, Dr. Niven, we see much

Dr. A. A. Mussus annulued.

Will you tell the Commission what steps will you sell the Commission what steps have been taken by the public health subority in Liverpool to control the milk supply in that only?—World it simplify matters if I showed you our regulations? (Regulations headed in).

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Dr. A. A. Myssax, -- 8th Nonessber, 1922.

31300. I don't propose taking you through the desails, and would Joy give to the number of diverse engisted, and would be supported to the control of the molecul offers of the control of the control of the molecul offers of the control of the molecul offers of the control of the

Produssor MUTTAM .- They simply 1809. Have very my special froming, —ass, and, try improduce's training, in general saminary matheus, 1838. Where do they get 420—In Livrepool. 18394. Under you?—Under me, and the veterious; and randiced officers of health. We have special

and threshold universe on meaths. We make appears classes, and regular courses, and we have a souscum on the mome lines on the Parker managem in Lordon, thouthe more lines so one recens mission in account, wron-ing the most recent smitery appliances. It is yest-thelly the same emergination that is held by the Sami-Since The Chamman.—You have told us about two

SHOO. The CRAMERAN—For have told in short we cleare of others. You were going on be speck of the cleare of others. You were going on be speck of the clear of others. You were going on the speck of the party see whole limit of the clear of

consequent upon year officers going into area em-terfled by other metherates for the purpose of making an important of the stock?—There has been no diff-JIMS You have not come into conflict with the beel anthorities in any place?—Well, they did not like it at first; but now, I think, they are quite reconciled

\$1290. It has become a recognised oustern new, and they have accommodated themselves to H7-Yes, and not only that, but some of them have been very pleased with it. It has easiled them to some improvements in their own occurbods. in their own common.

21400. Pedeser Mirrias.—Do you communicate
with the local authority before or after your visit to the Satisfic. We communicate with the recipied officer of

31401. Before you go?—Before we go. 31402. The CRAIMAN,—Do you also remenusicate with the local authority?—Not always.

31.001. Have you to get an order agreed by a megistrate in order to earry out the imperion?—Yes.

31494. Have you secontimus instell magistrates who were not quite willing to sign?—No; we have never had any difficulty in that way. 31005. There has never been a referral, so for as y know. Where your officer reports that he finds condition of the hyre describly resonanceoury w occasion of the styre districts transmostery who regard to distance, light, and wouldains, have you suthernly to call on the owner of the byre to carry out inspectation. —We have power to positive the milk coming into the city until we are attached that the

deaper from suborcitoris has gone. \$1406. Has that power been sufficient to enable you to offeet the property to offeet the property counts which you desire?—In a very great number of cases it hos. \$1407. In some cases, however, you have not been able to accomplish all you drained b-That it so.

\$1000. Professor Merran.—Do your powers apply to say other disease than tubecesteds, supposing you have due spaces to suspect infaction?—No; but that is in-cluded to the Public Health Arts. S1623. The CHIRDWAN.-You have that power, apart discother from other powers, under your own legisla-

21410. Do the local entherities easiet you in carrying waves. Do the local entherthies easiet you in merring out the enters you make, for the purpose of neuring forgroveneess in the lyund-Ob, yes; they are frequently very planed to get reports from as that such old such a lyru is insatility.

51411. And do they make you by sending their own officer for the purpose of having your suggested improvements carried out — You.

S1419. You have leyel co-operation from the local SIGHS. FOR MANY MYON COOPERSON LINE SHARE STATES AND ASSESSED AND ASSESSED AS A STATE OF THE STATES AND ASSESSED AS A STATES AND ASSESSED AS A STATE OF THE STATES AND ASSESSED AS A STATES AND ASSESSED AS A STATES AND ASSESSED AS A STATES AS A STATE authorizes nave occu very good resease.

3:413. Professor Marrant.—What shout the time prior to recordly?—Well, as I have told you, they did not like it much at the start.

S1414. The Charman,-It was an inneredien, end cas any quite conferenced that it would be somewhat to construct the beginning "-Cartulary." S1415. Producer METRAL—How long have your powers bases in force?—Knas 1900.

31416. The CRUMINAN—How long have your powers been in force?—Knas 1900.

31416. The CRUMINAN—How he keep yours to enable them to rectine that they were liable to inspection, and that it was better to recently the first the construction the first?—Introduction. and it was better to recognize the fact?—Gertaunly.

3141? Mr. Winson.—What trpe are the connects in other. Mr. Wilson.—White type are the connects in the outside etens? Are they composed to any large extent of fermore, of the class of people shoul whose

129

business you inquire?—Yes; in some cases.

31438. And do you find that, notwiksteeding that. they are willing to make cortein orders which will imstery are withing to make correct owner to the second pose finement obligations on those who are their neighbours and co-traders'—Xee, they do. Of notes, I am speaking grosseally I fo not sev to every case.

N410. One recognises that there will be contemutation multiplicate who will not there themselves quite no assessable to discipline and enthority. But, speaking needly, you would say that co-operation ageta?-

He20. Here you traced any outbreak of infectious disease to the milk supply raised outside the city creat —I cannot recell only definite one at present. We —I consol receil sey futnite can at pressul. We have had somell contracted within the city. I most have had somell contracted within the city. I most have had somell contract have been defined by a blild who was commissional housework of the contract had been described by a blild who was commissional housework of the contract had been decided by a blild who was commissional housework which had been decided by a blild who was contracted by the contract had been decided by a contact house of within the possible the rillih bring sold from that deriv, insuscitably after the theorems or maked. Only, say; make the general decided on maked with the contract had been decided to maked.

powers.

\$1420. Under the Public Health Act. What pre-portion of the milk concursed in Liverpool is raised within the city even?—I think a concessible estimate would be about hill the supply. The total anyply is shout 14,000,000 gallons a year. S1023. There is one breach of your ofinistiatration on which we should like to have the diffest possible details,

Disk. They is a new broad of the probabilities of the control of t

meditery we were shown from Prance wes not suitable on runnes was not sustaite.
31426. It was not applicable to your special situa-yet—No. The scheme was taken up postly well, if at the pomeout term we have about sower hundred and as the possent some we have store some analysis of Birgo on the books. 31427. Lody Evmann.—What ages?—From birth to strelve months.

31478. The Characan, How one thay selected?

is unable to south.

is uneffer to soulde.

\$1400. What I was corrious to know in this, how do
you differentiate between those who should get the
benefit and those who should not?—Well, we would file them all to benedi. \$1481. I know, but then one of the difficulties that eccircuis one in any philacthropic scheme is the danger of people who are not in monasitous of people the are use in monantons to variance of the people in very good chrometasses get this milk in Liverpool.

31-32. Lady Evenan.—Do they pay for it?—Yes;

Dr. A. A. Mrenne, Sth Nevember, 1918.

tasy pay.

31683. Miss McNanza.—Do I gather from your report
that the people who ose affeed to pay bigger prices are
expected to do so?—Yes; that is so. 81454. The CHARMAN, -Le there of then, seconding to circumstances?-Not officially, but

we tempor the wind to the aborn lamb.
3144. Who excretes southed—Our superintendent.
3144. Who excretes southed—Our superintendent.
3144. Who excretes southed—Our superintendent,
because this is the first instance to which our superintendent
by a public banks authority, and the expectation beause
by a public banks authority, and the expectation beause
by a public banks authority, and the expectation beause
by a public banks authority, and the expectation beause
are shown on the public banks that is
subtract to turning one in Default in certain banks that is
subtract to turning one in Default in certain banks and in
the public banks are the public banks and the public banks are the public banks and the public banks are the public banks and the public banks and the public banks are the public banks and the public banks and the public banks are the public banks and the public banks are the public banks are the public banks and the public banks are the public banks we tempor the wind to the shorn is mb

I understand. I was going to say that out of '
infants on our books at present 26 are supplied free.

\$1457 | Ameliated Says Very 160 are supplied free.

stants on our poles of present 20 arm supplied free. 31457. Askoultely free?—You, and 28 portually free. 53488. What determines that this certain number shall receive a free supply?—The general character of the bome and the applicant, as investigated by the repenuteniess of our deptie.

11.690 Does the decision lie absolutely with the

superintendents, or does he recommend and the com-mutates decide—The desirion would certainly rest with the committee, but, as a matter of first, is in left with the communec, cor, as a masser to accept a such the superintendent.

31560. He has apportunities of investigating the circumstance within the consmittee have note—Yes.

31411. Producer METTAM.—I suppose the doubter to attain the can recommend a fine supply—Yes; if it is

attoinment of the constant of

coon where the supernovanies should pay concething.

31442. That they see in a position to make some \$1643. Lady Evenago.-At what price?-ds. 6d. a. 31444. In that the pertially from 9-No; that is the

group.

81465. The CRATHERN.—What is the quantity covered by the week's supply?—That depends on the size of the There are the bottles which we supply-(Photograph of bottles produced.)

\$1446. Mass McNenz.—Do you recken that the is. 63, a week will cover the whole expenses?—No. Ill447. To Cramman.—Is 1s. 63. the largest con-tribution exacted?—That is the usual pulse. Britis tritotius exested?—Thet is the usual pales. Better datas people may per prote for some alight address. 31:48. Mr. Cattract.—Is it regarded as an experi-ment?—I has been going on for forterly eyes. Yen will see here (pisture exhanted) the basies in which the bottless are sent out. The shift gots a basic ever townly-dury learn. That contains, for the smallest dills, aims belotte, and such bottle continue on bed. child, when heldler, and such brittle contains one food. There is no necessity for the matter in measure the milk or decast it. All she does is to piece a text or one of these belies and fact of the late. The object is to minimize the risk of contaging in the herm. 31462 Miss MCNIMA.—A spirit of your loss is she was the milk of contaging the state of the con-duct to makings in bottler, and difficulty of charming?—

Administration generally \$1400. Mr. Wilson.-Can you give the price of the mild hardled in that way? —We reaken that he di, not pays in the milk. It does not pay for knodling.

31451. Sir Stewart Woodengan.—In it pure or elleted?—That depends on each child. It is diluted an-oveding to a formula medified from time to time. 32455. Is it posterrised?-It is heated up to 510

31455. Strellised?-No, upt sterilland.

19654. Miss McNmrx.—For how long will it keep in good condition?-In some cases we heat it longer to colo it keep. We do not generated it to keep kenger 31655. You work your deput on Sauday?--- Yes.

S1456. The CHARMAN, To what ever does this there extend ?-It is supposed to extend all over the tw. but it is restricted by the measurity of getting the

milk so often from the depot. To minimise that diffi cally we have induced several duries to take the mill from us and distribute is from their shops. We do no defiver it from the depote.
51457. It must be called for?-Yes; we have five depots under our own copied, and an arrangement with eighton or twenty flurius.

81408. Mr. Wilson,—Are three depote used only as depote, or are they aliniar!—No, merely depote. We been no medical attendance there. We encourage the mothers to consult their own medical men. S1459. Miss McNmx. -You have the co-operators of ceases, same MCREEL.—Not nove the co-operation of the medical men, and don't require a clinic, as if you were doing this independently of the medical men?—

Tinst is so.
\$1400. Has each depot got its plant?—No, only two.
\$1401. The Chambian.—From what source is the ry necessit.

21462. It does not appear in the table of expenditure
the beitfal rout was. Was it beens out of the what the kritial cost was. Was 3 home out o water in one individual years—You. \$1450, With reserve to the demand, are you

ebliged to refuse any applicant became of careful of the supply, or desire not to get beyond a certain stan-derd of expenditure on this scheme?—We have not heen restricted. 51464. And in the expenditure here set out you are dealing with all the applications made to you for this milt?—Tes.

\$5455. It is gratifying to see that the cost of the milk had is increasing year by year. The questity year have dealt with more be increasing. In 1911 42,018 17s. foll worth of milk was taken, the emire cost of the enterprise for that year helag \$4,6315-The cost of the mirk is practically only 50 per cent. of the entire espenditure. ture espenditore. 31,636. Ledy Evimano.—What do you pay?—We paid inspense-ballpersy, and now we pay tempence a

\$1487. The Champson. In this colls derived from a recyal herd under the control of the veterinery repetter Are they subject to the tolerculin test?— To have special regulations. The nulk comes from

see firm.
S1408. Sir Sprwarr Woomsorns.....The cost to the Curpos titles in deminished by the partially poil sunse?

—Yee. I am morry you are not able to come and see the depot. It is nother a difficult matter to applied.

3169. The Crammus,—Xou are helping us in error. moble way. The Websen.—The milk we have been getting for

these depots has come from one form for a number of mrs, and has been consplicably good. 31470. Miss McNunz...In the country?-You. Our SIGN. Miss McNeux.—In the country h. Two. Our victorius; jusquotor gous deven from time to time to inspect it, and we intake upon the farrors bineseld. Significant with the significant point of the significant control of milk was hardful in 19117—Abort 90 gallers a day. 48472. The CRAIMENA.—What impost has the expenditure of \$20,000 a year imposed upon the rabes —A person year from the significant s

S1475. In round floures it would be about a sixth

profession of means decreased to word the choice a size of program of a prompty—New Action and the choice a size of the choice o

hiver of some continues. In there offers a surplus of malk from day to day?—There is semetimes. We semetimes heat it, but if it is at all surpleious it is 31479. Have

you may difficulty about getting it is the winter?-We have the same supply all the year

S1490. You have not got a fixed contrast?—Yes, we have a fixed contrast?—Yes, we S1481. My. Wilson.-It would work out that the milk is worth to the public about three shillings a gullon. Fart of it is paid by the money you get back, and the rest it poilt by the rates. In order to run, a page of this stype can would have to ordenighted a cost of three hillings a gallent—filed one times reasoning that about 50 per cost, of the chridren who cause to our legel are fill, and that they require specially controlled tills.

1189, It is in the waters of mediums for them!— (a. Bornellous we have as rowny as fifty or sixty

18th Oblitication of the Communication of the Commu

3146. Who diagrams I—We Hipperiolecidents. They so pretty well testined, because we have all our milit solved by Gordon's test.
3146. The Commons—Has there here a consiste diagrams in infant mortality in Liverpool alone this diagrams in infant mortality in Liverpool alone this common in the common section of the common section of the time that has been in vages we have treated only short 10,000 shifters.

short 1500 children.

10:88 This is only a very small percentage of the apparation—0:017 a very small percentage. Bet I think than it no shout that the doubt, when some short that the other has been shout that the doubt, when some should be the should be shoul

for 1000 to 45,194.—That was the reat of the sulfapromised for the days? it was \$1,195, and in 1100. \$1,200. There the figures rice signly considersity in 1000, 42,174; is 1200., 42,190, and in 1111. 42,218. Yes the in very subfigur—I which I will be a superior of the superior of the superior of 1111. 42,191. The the year of decrees, and it is one op again. But in addition to going up in the subfigure way, we true jumpified a very improvise obstray way, we true jumpified a very improvise subfigure that it is not introduced a very improvise the supply of sulfit to accessing mothers.

has rapply of still to making read-time. So that is a 3-944. While in IRE—Walder milk. At the present time we have 180 members who are gatting milk for 1100.05. The Currowan—La thele, too, rapplied at a related tast 7—15 does not pey, of secure. 1000.5. It does not pey, of secure. 1000.6. It does not pey, of secure of distribution state (Breek) terms as the milk that yes supply discordly to the intensity—These is this back it, it does not require on mode administration. As milk employed its few many discount of the secure of the secure of the many discount of the secure of the secure of the many discount of the secure of the se

the one of the enseing coather handle, or for the counties enther to prepare for the near of the rebild?—For herealt, for her own consumption.

14500. The 'Caustrate.—In that milk sterilized shot?—No, except in the hot weaker. No, except in the hot weaker. No the county of the coun

330%, And this part of the scheme is georing?—Yes, we have been amplying milk to sarring mothers since the school of the perfects.

100, so the perfects.

\$1400. That is first the period when the rise began.

\$1400. That is first the period when the rise began.

\$1400. That is write through the same first that the same first the same first the same support the same support that the same first the same support that the same first the same support to the same support the same support to the same supp

mothers get?—Abore 34 gille—searly a quart—and at the present time 118 are yaying 36, a day. 31,001. That is really 34, a quart—Of the rest, sixing pay 32, and strongly pay nothing. The Cunnent—There again you regulate your distribution by the firsterial circumstances of the family.

The CHARGENS.—There again you regulate your dislibration by the finencial encountriences of the family. 31502. Mr. Wilsen.—Is this part of a complete scheme of milk covicel for the city S—No; it is enfirely as its own. \$1505. Lady Rymano.—The scheme, you have

is its even.

\$1505, Lady Evenario.—The scheme yes have described in considerout entirely through the Corporation.—Gainville, I should say that one or two members of the Corporation was so impressed with the broadts that they have alternative subscribed from time do too to provide women with a free supply.

section to constant one need to operations—the product of the constant of the

81607. Bot do may be the numbers of the Corporation forced that it is going to become a brainfor offer december of the point of the corporation forced that it is going to become a brainfor offer december of the corporation of the three decembers of the three decembers of the corporation of Liverpool, as the corporation of Liverpool against one of the proposal control of the proposal control of the proposal control of Liverpool against expecting the corporation of the corporati

and there has been no detroy within the Corporation of Uttropial applies reporting many; in this way for the purpose of bridge colliders—So. As the propose of bridge colliders—So. As the second of t

ricer? COMMANN-Do they regard it as reproductive. The first dates which we likely up to the product of the first dates which is likely up to the product of the first dates where the first dates for the purpose of lournage the health of the comments. Without, which regard to previous accordance to very copyrt, you have evidently got a solvene strategory to that we have heard of term Br. Nowa, by which you follow up the samples

from Dr. Nivon, by which yas follow up the sample, in 1961, but the unuser of none companied with \$50, and apparents of the companied with \$50, and apparents of the unuser of none companied with \$50, and apparents of the unuser of the unuse

perce down in recent years, were used prisons has got on the recent years, a 3517. As the lagares in this volume?—Tex, I think a 3517. As the lagares in this volume?—Tex, I think so it is a series of the control of the percentage of the cut would like to nee whether the experience of the veryood could like to nee whether the experience of the veryood could like to see whether the experience of the veryood could like to see a series of the percentage of the p

—I thou, you will men ut the detains as see region. 1950; The Cammon-Author subspice you are abrilled at the present time with practically 1,000 children who are the other with practically 1,000 children who are the other with the receivable properties at the property of the property of the contraction of the resident with the property in the contract of the contract of the property of the contract of the contract of the present on without the resident will sake the traville to contract for it.

therm up to a year, and the considerable was to be supply as a sup

the destinate strong the cultivar who have been at \$1858. Where do you first your principal outside supply of milk from in Liveyce(n-Free Charles; of per east, of the custode milk corose from Generic, 18284. The Customous foreshing from the "Regards of the Charles of the Charles of the Charles of Oats of the 1879 industrie country procedures says to the depots, at verted ages and in conditions of bealth before against 146 per boussead for the wide city, and set

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Dr. A. A. Mcusaux .- Sth Nonember, 1918. 95 for the best districts, and 219 to 245 for the worst,

for the five years. But it must be remembered that in the rete for the whole city, and for the best and districts, sto included also breast-fed luture breast-fed arrivats were emplated, and ertificially-fed infants only taken into account, the rate of mortality smoogst them would be osomnously larger and would show even more furnibly the advantage

and would show even more foreity the advantage of the attention of loof, which is, of course, an artifactal bood, over color multiods of artifactal factors. Mass McNatt.—A great sumy of their children are unbiastly children 1—They are when they come. 21005. They come to the depote because they have not have decay well on other foods?—Two or three years after we started this I drew up a clare theories.

the condition of the children before and after they came to the depot. Them are to the churt 800 cases. and you will see how much below the average weight and you will see how enoch before the average weight they were when they first enter. (Charle produced), 31501. Yesteeday we had evidence of the dis-continuous of the Chapper depol on account of unsattlebubery results with regard to weight. They mild that that was the reason why they stopped their depol,

because other methods of artificial feeding had produced greater increases of weight. In yours the narrease of weight has been very marked?—Very. From 7 lbs. 10 omness to 20 lbs. in tre useraths. 81537. Ledy Evenues.—Have you say trouble in enforcing the Covaleds Order?—No, we have them very well in band. We have about \$85 covaleds in the

\$1528, Prolessor Margan,-What is the bowing population?—6,438,
Professor Marrias,—There are more cover, then, or
Livernool than in any other city in the United

ingion.

\$1929. Lady Evensus.—Is it your opinion that the Order for constock should Defer for countries sacran on compounts over permaners Have you found that some look sythorities

put it into operation body and some out at all—I have not much experience of other local authorities. \$1380. Mr. William,—What is "year notation with right to somption of milk extramed for interested hatfall?. —They are taken by one of our food and drug improtons and then taken to our Congentium Bacterialized to be contained. If it sends as a report, and the consideral

then exuoland. \$1501. If you get the presence of the bacillus the votalizery inspector goes to the from from which the milk was sets into Livernool?—Yes. milk was sens into Liverpool !-- Yes.

S1503. Has be got power to destroy the cor with
compensation to the owner !-- No. The power we have

the power to make an order to percent these farmer anothing sufficients the city till they are sakisfied that he has disposed of this own or provented telescontent multi-couring through. 31533. You have very small security against that now bring used for the milk supply to a neighbouring

comulad or for a neighbouring town?-No, we have no command or us a suggested only twenty—No, we have no power in that freedings.

51264. And yet once you have discovered a hunst to be divisely toberedous its threat should be set with the least possible should be yet with the least possible should be yet.

relationable.

31593. But your regulations only protect one line of milk routs?—We have only the power to protect con-solves, but to protecting ourselves we have refluenced the local externities in the country to improve their

sanilary conditions.

31503. Profesor Merran.—Have you my scalorus milkit—For. Some from Denmark.

31507. Promoti—No. Sterlined.

31598. As to this quarties of notification of tober culosis by owners of core, is three any penalty?-60s. 31539. Have you ever prosecuted?-Yes.

31500. And got convictions !- Yes, 81541. Mr. Currenze, What defence did the farmer set up; that he didn't know by have had convections we up, that be dish't have?—We have had convections at 46 cases in 10 years. There cames were writedness and 60 distallment. That in 60 cases.

316-63. What now the debutes? Do they not committee any that though dish's know; that the actimal was prefacely all right as far as they leave, and it they said that, would it not be a perfectly remarkable position on their park. It takes a ventralizery surpose of this position is not been part of the property of the

says avery dairymen who supplies milk into the city and has any cow" suspected of or exhibiting signs of \$1548. If you said any oper having an absorred wider to know about this absormal offer.

81544, Mr. Winson.—You don't went to occalise a mus who sends in information that a new has got something the matter with x17—Certainly not. In the

ette uggler this same section we have received 1,100 SLi44. To how long a time?—Since the Art owner nto foce.

S1690. Professor METTAN.—And these have all born cases of suspected udder disease?—Absormal offers.

S1547. Do you know whether the Liverped heavitale. dispressive insist on having tuberels-free mile?—I do disponenties strain on nevtus passeria-rec music—a on not know that thay total spot it, but they take every persecution they can to crisure a pure supply. I do not approve whether it would wiscensit you to have a copy of a report drawn up by this mambers of this Liverpool Medical Institutions on the authent of the milk supply

to the hospitals, giving suggestions so to what should at the required in the contracts.

31546, Do they include a condition for tuterole-free milk in the hospital ecotracts at the present time?—I

do not know.

81549. You do not know whether they insist on the insist that the auritory conditions of the cowsteds shall by up to a mampable standard, so for as they can 31550. Do you know whether the milk going into the urious hospitals in Livespool is harismologically enamincello-Certainly; we do it for them.

Sinii. You do it at the University-Professor Beattle

31552. The puspetter of foods and drugs examines saped, you payerer or room the drugs commen-ties milk supplied to the begunde in the same very me he would commine the milk of any wender?—Foractly, 31533. Do the houghth thumsdwas tallo samples for hesteriological comminsting—Occasionally. But generally thry send for us, and our inspector takes the samely. It is better taken.

2 Inc. I presume the milk is brought into the city 31555. And across the river in bosts?-Not very equently; we have a tempel. \$1556. And it also comes by read?—Yes. \$1507. Here you say receiving stations for this mall?

-X46.
31558. There are wherea where the milk is deposited from the texin?—There is one at Lime Street Station. nen ibn texted - arange is one so lattic betwee common. 31509. A proper mille receiving quay or pleiform?-It is need practically for milk also 31500. And it is there where the samples of milk sie 31561. Are any special promutious taken by the

31581. Are any special promutation tance by no important so that there shall be no contamination of the time of taking the sample; have they any special which for corrying the rolls; the same as they have in Manchester-Thry have special vehicles, special boldles, which are supplied by the bacteriologist from se inherencey.

51002. The Craceman.—Is there any special sels of

milk contiled to be drawn from cours that have been subjected to the drawn from cours that have been subjected to the subsecutin test in Liverpool!—No. 31.883. Note of the conviceopers have subjected their berds to the Schwerglint test, and them advertised their berds to the Schwerglint test, and them advertised their berds to the subject to the sub hnow of.

\$1084. Professor Marrain,—In some towns you will
see in the wordow of a darty: "The come professing
our milk have been correlated to be free from tehrycalesis

by so-and-so," or similar nations. You have never seen

by so-and-so," or similar nations. You have never seen anywhing like that is Liverspoid—No. 31886. Of source, it is of no ves, because the certificate only prices to the stable of the hard at the fine the examination was made?—It is quite uncless. \$4000. It Consent.—In there much tal? in Liverspool about having all cows touted for toborcesions?—There is sirroys tall flower. But no definite scheme or plan has been

SIESS. In there a picetain supply of milk in Liverpool?—I think it is quite good. Of course, the price has gone up, as it has alsowhere. A very large quantity of condensed milk is used in the power parts

of the city.

Dr. A. A. Museus .- 8th Necessber S1586. On the contrary, good effects?-Yes.

31509. They use milk substitutes, condensed milks, and so furth?—A very large quantity of condensed milk \$2570. Is it used to supplement the milk?—I do not more that. It is very largely med in the poorer class

\$1501. In the same way that it is used in Ireland?es. 31572. Sir Sunware Wecomorou,...Is there less have

and porter oppramed than there used to bo?-Do you menn for 'mfaute' food? 51578. No: as a beverage. If there was less alcoholic Equor, where would be an increase, I should slockels liquid, sorre wound to no interest, a necess say, in the communities of tes, and possibly of male. You would not say there has been much change in that respect?—I do not think there is really much change, \$1574. I take it that the infants who are receiving

Signs I take it that the infants who are restricted at your dept are infants not being wared by their mishers.—We insist on the being working for result if possible, and every means is taken by our tenade inspectors to got this accomplished.

JUNG, it has surply braided to infants under toolve metals are proposed to the control of the

off the Harr-resonance we name kept when on more breity manufac, but that is exceptional. 5156. Where the children were delicate, or for agree other special manon, I take 157.—Ven. After twive manths; old they should be golding something more than will 11577. A small zumber of the 700 children who are

being supplied at the depot are receiving a gratuiteus supply, but I understand that the great manority pay supply, but I understand that the great majority pay searching P.-Ves.

31019. Therefore the enterurely poor do not avail thermolves of the depot to any large extent?—Well, we find that anxong the enterurely poor a larger per-sentage of the mothers for their induction on the level.

errage of the mothers fred their infants on the becast then among the class just above. It is less trouble than presenting selfficial food. than preparing arethons across the proportion of all 99, 80 appearably a semaiderable proportion of these YOO beforin belong rather to the well-to-de working change—Yes. You are the getting of the milk satisfies a sertiam amount of toucket. They have either counting meeting amount of tecable. They have either to come to the depot for it themselves or sand for it.

to come to the depat for it themselves or send for it, and it means that the mobiler must be very keen on searing her inflant with when she takes that thoubbe. All990, Some of them would appear to pay the value of the milk. I am not speaking of the cost of admiring the cost of admiring the cost of admiring the cost of admiring the cost of the cost of admiring the cost of the

\$2581. And in much comes they cannot be said to get to so matter of shapts?.....No.

a to a matter of suspect—No.

3462. Why do yet fix on 23th degrees, almost helling point, for bristing the milk—It is not scally fined, point, for bristing the milk—It is not scally fined, and the state of the state of the state of the quarter of an heur. Due to the summer time we find that union it is bested ocastly up to belling point of points a bitle more, for ball an hear, it will trace more tables excelled.

the reason is, it requires a higher temperature in the senance. One must remember also that after the milk as heated, and wilk is heated, and has got to a summer temperature, the barteria not killed develop quickly; more quickly in summer than in winter.

\$1860. Do you consider that milk that is practically boiled in as mutations as mor milk?—There is a difference of opinion on that. Reports say that there is very little difference in the untelline value. \$1594. Professor Mercan.—What is your own opinion?

—I am not a children's dector, but I should not think

there is much difference.

J1885. Mr. CAMPHEL.—These children that you are feeling are being reared upon beated tolk for a large period of their lives. Are you finding my had effects?

Mr. Jens T. Quiston examined. 31607. The Chaptery.-- You see one of the food and

drugs inspectors under the Corporation of the City of Liverseel 3-I are.

in heating wilk up to 210 degrees?—That is so, \$1288. See Stream Wommerse.—Here you a high street, four distribute amanget lifetit for the summer?—Yes, very but it has knowed of late year, \$1,000. Do you stiribute that to the mile?—We timb it has something to do with it.

51.700. Would you say it was the result of defective hyperon remondings?—I think so. The neighbornbooks where deakhs are most frequent are unaggitary

31501. Are special proportions taken in the emerge time as regards the milk?—We take a member of samples, and we also have our famale improtors, who derete their whole time to those cases furing the dambas period, statearting the mothers. We find that the contamination of ralk occurs objetly in the homes.

\$1500. Professor Merrax—Do you issue pamphlets

during the bot weather?—Tes.
\$12.00. Have you systled the Widel test in many cases amongst make preveyors?—We have get hed an cutterak of enteris which we can krace to then contrasts of enterts which we can true to them. 13.94. Have, you the power to brain upon the spyllon-tion of the test if you have means to suspect typical intestion in the braining of the relite.—I do not them we have got any local power, but if the milk-design we have got any local power, but if the milk-design was to be said that it milk would be made suspected if he did not agree. I do not think no should have any

from a dairy if you the power to stop the supply of milk from a dairy of you suspect that it is consummated in the dairy?—You.

8166. If you have suspicion and no proud?—Yes, 81597. Mass McNaux.—You believe that the progress made by children fed on your milk has been so satis-

factory as the general average rate of progress?-Tee, among those artificially fed. \$1,000. You have no reason to suspect a depreciation I chief vignor as the result of being led with heated

31500. It is said there is a greater likelihood of the occurrence of rickets. Have you had that experience? -I do not tirink that is up. 31600. You have not had sty trouble with miketel ... Of course, there are rickely cases.

31001. Is much condensed milk used?-Yes. A kery 31002. To what do you attribute its use?—It is chosper, and it is expable of being kent,

31808. Do you know whether they used a good brand of it with a full peoperison of fath—I am afreid they do not. I are afreid a very large proportion of it is skimmed condersed milk. \$1604. And the ordinary purchaser, you think, done not try to find out whether there is exough fat in it set try to fina our wnester stere is enough int in it or not?—No. Of course, mechine iskinmed milk must be labelled; that is econgelisty under the Act of Parliament; but whether the cedinary man who have

to in aware of the great difference there is between the S1896. Professor Marram.—It is a question of price, then; the cheaper orticle being the our favoured?—

Certainty.

Stock. The Churnon.—Too have been good enough to say that if any members of the Commission owner year and the Large of the

The Charlesan,—Think you so much, Dr. Mussen. We see very much indebted to you.

31600. And a part of your duty in to take samples of the milk distributed in the city for the purpose of burnik distributed in the city for the purpose of burning form analysed 5—That is no.
SUIO, What appear in followed in the taking of samples? Are they taken pooretenously as for various anilosy termine as which the milk is delivered, or do

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Mr. Jone T. Quierray .-- 8th Navember, 1919. you restrict your exceeds to expected readout-Oh.

S1611. Speaking generally, is the milk produced in the city shell power than the milk sent in from the outer ares?—I should say it is. 81612. And it contains a higher standard of butter

fat then the milk which is sent in from the cents area? \$1013. To what came would you attached that result? Do you think the feeding of the cown is in any way. \$1614. Are the cows that are kept in the city fed

more leighly then those that are kept to the country?-So far as my experience goes they see.

81615. Are the cown kept by the city decrymen kept for one inclution period only?—Not always; they may he kept for a larger period.

81626. Have some of the oprinsepers in the city green runs for their autic ?- Very few; not more than twenty or thirty.

3007. That is, they never let the cown out in nummer; they are kept in the whole year sound?—Oh, screenings they go eet.

3818. On pastices within easy reach of the city?

-Their is,

3819. Do you continue your inspection of the cows
when they have passed out of the city area just as you would if they were in the eily cow hyres?—No. 31930. Does your voterinary inspector make any

examination of them when they are in the pastures?-Not when they are outside the often Not when they are outmost use only.

\$1022. Done he makes my suspection of the cowe in
the hards that are suspixing male to the city?—Yes.

\$1222. During the period when the city own me on
the country postures they are not commissed by your veterious inspector?-Of ourse, they are emmissed NISES. During off the period fary are on the partures, say, May to November, they are not under reteriously inspection?—They are not out so long. They often come into the city for milking each day.

81624. Professor Marraw, They are driven into the city from the pasteres?—Yes. \$1603. Then you have no

\$1603. Then you have no cowe that are practically turned out for a period of five or six months -- Ch, no. 31625. Are these farms in the city over 1-th me. eity rent hand to which they out send their cown when thy Fee and they will be a set on keepers in Liverpool with 45657. Here you say our keepers in Liverpool with or little in the set incredible neighborhood, and are such core look to consistify — Yes. 45658. The Chargean—I side is that the con-dyres 45658. The Chargean—I side is that the con-dyres in the observation—I made it least was convergent in the other see loops in a highly savidistary conditions.— There is no doubt about that, 24000, How you may different in gotting the orders of your impactions confirmed with?—Roses. 34000, How you may destroy the properties of 30000, Professor Mitterson.—The conv. Acopte date tool 34000, Professor Mitterson.—The conv. Acopte date tool

objects—e.o., \$1053. You have supreme power over him?—Yes. \$1050. Repeting above who send in mile from the occupier, do you know whether headlerds would be disposed to energy out improvements required by your celors in order to equip these farms for the tende partied on by a new-hosper?-A great many do, but a great merry do not wish to do so and do not put into operation the suggestions on make. Shifth. Have you known any supplier of milk who shandcood his tends because of financial expenditors that would be imposed by the conditions laid down by

your inspector?-Xune. \$1634. And bee the increased cost necessarily aciding from enrying on these operations been a factor in reducing the quantity of mile available for the consumption of Liverpool!-No. \$1506. From what area second the city is the milk supply draws 1—Chiefly within fifty salles.

supply shown 7—Chieffy within fifty sailes.

1/488. The Chamators.—Here you found that samples for milk from a certain depot when ministrated for constitution as to purely were maker below recent, and though not embinding were maker below recent, and though not embinding to be warrent prosecution, and within the control of the depot for a fact of the certain whether milk coming form that control was the control of the certain whether milk coming form that to ascertain whether the milk coming to particular source was almormally poor?—Yea. 61607. If your compiders are amount you take samples more frequently?—Yes. 51688. Would the number of prosecutions for adultoration be greater in the country data in the olicy?— —It is greater as the city. But a large number of samples taken from the city may really be drawn from stiller. So you hold the milledualer responsible?—If we get a dealer selfing helow standard we try to get at the man who sold it to him. 51540. Professor METZAN.—You are able to stop

\$1686. Would the number of

SASA. Professor MUTRAM—Yes are able to step as who he previous milk in that steeds a date to be a seen who he previous milk in that steeds a date of the seen and the steed of the seen as sumber of producers. If a sample of that both wave found to be oblivered, would you then proceeds the passes who was affairing the milk for saids—Cortamy. 2006. Too would not be the, its such circumstence, to get as the produces, because it would be extremely difficult to determine who be west—I quite agree. But it would be the business of the pureapy to get a warmsty.

39448. And the fact that he might he proscould immed would mean that he would sarried you in discovering the periods who supplied the milit is military with the process who supplied the military military with the standard off military washing you on the standard off military interesting in Liverpool for the schuletties in Liverpool for the schuletties of military military washing as period of the schuletties.

years the average fine was about #3. Of course, some cases the fine has been considerably more than \$1. some two mee has seen consistency many them to 51844. It would be graduated in neordance with the measure of adulteration?—Yes.

51844. What is the bighant standard of adulteration that has been proved in Liverpool?—We have had ease-where almost twe-thirds of the ergam had been being the control of the control and been the control of the control and the control of the control end we have bed so much as twenty por east, of added water.

\$1548. What form of certificate does your analysispre? Does he give you the constituents of the make, or does be surply sup—" this still has been adultanted by the adultant of too, fifteen, or twenty per cent. of water," as the case may be—Mo; we get all the castillocate of the milk.

\$2500. The world as the first substances?—
\$2500. The world as the first substances?—

also. Welcan are comes or assumer then no water where the non-firstly solids were below 8.52. That is no. 31652. If the milk showed eight per omat of non-firstly solids, would you be able to design that water 51052. If the milk showed eight per omt. of non-trity solids, would you be able to dealers that write-had hom sided?—I do not say that.
\$1053. Would the chemist say that?—Xer; he would have subbordy to say 8. Of opens, it is an ensuring-tion that water has been added.
\$1054. But his coefficient way 6; has have added?—I. No; he says that according to the standard of the Board of Agriculture he staumes it has been added. Professor Merrant,—And he finds it out by a sum in

arithmetic. arthmento.

3645. Mr. Castranz.—And if the percentage of non-daty colds up to 6.5, and the lat is under 8, than you say a cartain percentage of the fat has no rithmend, area addition; it is guar milit.—Wild, of course, the standard is based on the process milit. 2006. Have you had any difficulty about the stan-tage. 31607. No difficulty shout morning and recults milk?—Ob, yes; there is a difference.

Since. Does it werry year, or the peoducers, in any ways—believe it does, but not in Livarpool se much as it used do, for the simple reason that they are much ing sacce uniformly. These used to be too good a lope of time between the two militings, and the largely accounted for the difference in fat

\$1650. The Chamment—Have you over known the defence set up that the milk had been seld on it came from the core, and that it was the pure product of the cow, side of the bally should be the bally the cow, although the analysis aboved it to be ballow the normal in segard to hotter fat?-Oh, you \$1600. What vice has the magnificate taken in such a case!—The man has been fixed, and by reason of this, that you have to take into consideration what the new has been fed on. It may be a case of improper 31061. You think the quality is controlled to some extent by the 500d of the conf—Yea; I do. I think the feeding in responsible to a certain orders. \$1600. Mr. Castraut.—To what extent.—Well, if you have a man fashing his cows so brower's graine, so solution, or the more watery foods, you will get a

Signal. There is a point we did not quite finish.
Formerly, you said, they used to milk early in the
attennoon in Liverpool?—I said thry used to milk at

amendment in Adversors — a sear tary times to many at ampulse periods.

Sitble. In other words, these was too great an interval between the two periods of militing. How has that been got over?—Latgety by the covincepers' organicbeen got over \(^{1}\)—Largely by the covintegers' organisa-tion edowsing shert members on this point.

31005. First to Dukhn it is not the profineers of the state of the the afternoon. We find it difficult to get people in Dukhi to say that they will take it little in the after-noon?—I admit to it difficult, but the difficulty is minimized at Leverpool by the covinages milling at

regular throns.

21000. The CHAIDMON.—I toke 15, too, thus there are better facilities for tentall now than there were resulty yours and—Xia.

21007. The milk is taken more republy from the force to the consensor, and that is helpfull—Xia.

21000. Are the city covelespees more lendy to report 21000.

was of suspicious redders than those who are resident cases of supprocess make these way we recovered in the more remote parts of the country?—Yes; for the simple reason that at they did not they would pro-bably be surremoned and fixed before the magnitudes. We always take proceedings where they do not notify, and a venuentian would affect a conference in the city reoccention

anch more than one outside.

21600. Has it ever been pleaded in these cases that
the owner himself was not conveyant with the choosmal condition of the snims!?—Yes; is his come up

mal condition of the solimit!—Next, it has come to almost every time, that he had no knewledge of it. 33570. But the magistants has held that it was his chay to have knowledge—Next. 11671. Ignorance has not halped him to say way?— Not in any way, so for as was one described. 3,3072. What each of these are imposed for besselves otto). What nort or mass are unposes or town-con-of the regulations in not reporting suspicious cases?— Forty shallings is the measurem. We rewe have less then twenty shallings, and more often don't shallings. In oblition to that, if the form is outside the city, the costs askalled in visiting the form are sametimes ob-

\$1678. Have you much trouble in enforcing obsu-liness in the bandling of the milk, to the habits of those who are engaged in it?—No; very little trouble, speak-51574. That hee hears an educational movement, I take it; they have come to recognise that the labita and contours of venry any extend new by tolerated?—

They recognize that fully. fillers. Do they make provision for the washing of the hards of the militars?—You.

31670. Do the millors wear smooks?-Some dog

and oil.

30.77. I suppose it is not unreasonable to severethat the same degree of efficiency his been reached in
the country as in the offer country. I would not like to
go to far as that,

30.77. I would not like to
go to far as that,

30.77. But it regard to it space, the measuring
a regular number of test of rainly space, who were
not accessive in the country-traves might meet the
not accessive in the country-traves might meet the

conc.

(See Sept. Here you any difficulty with requel to me control of naturn 8—The results heap are very small sequently as a superval frequently.

Sisten Mr. Convents.—Ones in seven days—III night go quicker. It depends upon the number of

cows look.

S1681. Professor Minrass.—Have you not got any
general rule?—We have a rule that it shall be removed eight.

occure eight.

31.682. At what intervals?—About feaction days.

31.683. Tour duties do not take you out to the country
anes5—Tou, so far as visiting the cowhole goe.

I have done that for thirteen years. The veterinery

Imposter accompanies me.

IISS4. It would be your duty to see that whatever
alterations are prescribed by him are carried conf.—
We accusint the county authorities.

31635. The Commans.—They on operate with you?— They co-eccase with us all through.

\$1666. What form do you follow with regard to perfirming cases?—We report to the modest officer for the county as to the defects existing upon the premises. Our duty is then ended,
35067, Where would the modical effect for the county
reside?—If it was Saley he would reside at Shrawshory.
To him we should sand a written report of the defects the permises. He would then report to the rural on the yearsies. He would then report to the rural sufficility, so that the rural authority might see that the alterations were carried out, and if they did not early them out, the County Council would bring pres-

sure to bear.

81688. Profesure METTAM.—Do you communicate with
the medical officer before you go, or after you have boom!--After we have been

been!—After we have been.

HIGH. Hars you the power to walk into a man's
HIGH. Hars you the power to walk into a man's
HIGH. Hars you the power to walk into a man's
that way he keeps he astmakt.—Oh, so
HIGH. The CHESTANKE.—You get an order from the
magistrates actioned by you to do no?—The
magistrates actioned by you to do no?—The
Margie is wrongs.—Acts
Horse a supplicion that comdatage is wrongs.—Acts
Horse a supplicion that comdatage is wrongs.—Acts
Horse a supplicion that comside owner is a sunfag malk into the Thompton?—We must

have a suspicion.

\$1868. What quantous are saked by the magistrate when you apply for the order?—He sake the ground on

which our amprious are heled.

11694. Predessor Mirrans.—You may sak him in Court or, if you meet him, in the streets.—You have many for ment go to a County Magnerate. Tunning to a County Magnetrate.

\$1605. The CHURKAN—One whose jurisdiction is in that area!—Yes. 31096. Have you the same power with unclean milk as with that suspected of tuberculouts.—I don't think

We have. Suppose you got a sample of milk which scatted no manyteins with regard to the presence of tolercolosis, but was resultedly unclears and care-levely handled: what would you do?—I should apple for an order to visit the place.

Sizes. Because you had found the milk to be a danger to the public health?—Yes. 51000. Has a magistrate ever refesed an order because he thought the grounds of your suspicious were not sufficiently grave?—We have move had an order refused, and we have visited 110 forms between the cod of 1902 and the end of last year. 31700. That would be about clower farms a year?-Yes, on the average.

No. or, the average, \$1700. Has the velocities of open any more deaths power than is conferred upon yous.—No; the makes effect has the power. The restricting officer goes to examine the cuttle at the request of the module officer. \$1700. And no power is contained by these Manchester Model Observed to enable an authority from a district the state of the s communing milk releed in an outside area to make promisenous inspections of eatile producing that milk?

—If they are the same as the Liverpool Clauses, certainly not. B1708; Mr. Wilson,-Are you satisfied with the

covers you have got under your order !- No. powers you mave got unner your owner—No. I think that the powers should be extended, so that an animal when cospected should be induted. \$1704. You are referring to tuberculous animals?— S1705. The CRAMMAN.-It is quite true, and one

BITUE. The CHARACTER IS quite tree, say report recognize the fact, that in various districts different standards of afficiancy will be say up. If you are drawing your nilk supply from half-a-decondifferent local numberities, two of which are administraour come road authorities, two or wash and formation ing the regulations officiently, two vary carelessed, and two administering them only commelly; would it not be fair that your Liverpool health sothering should have the right to distensive whether the milk was being as right to determine whether the milk was being produced under clean and hypinzin conditions?—Un-deabtedly: I quite agree, and we do make visite. Sensettines we visit a farm in the outside area without a rangistrate's coder, and it has not here received. In the early period of our visitation there was much opthe early period of our visitation there was reach op-position, but during the last five or six years the farmer has rather welcomed our visits, because he knows that

and confer wearcome, our vesse, undespite in success that they mean improvement to his general ever hyre. \$1706. Mr. Witser,—Are you a velorinary surgeon? -No, I are not. I am a sambury haspector. \$1707. It has been suggested to us in different parts of freihand that some of the venantimest allows between the town and country sutherston in this matter was due to the feet that some of the work of impection was done by non-qualified man?—I quite agree. I myself Mr. Jones T. Quisson,-Sth November, 1812.

do not deal with the voterinary surgeon's work at all and I would not answer may questions relating to his detice.

\$1703. The CHARMAN—There is no overlapping; the reterming anyone does not interfere in your sphere, and you to not interfere in his?—Not not at all. 6109. Professor Marran—I presents that the farms ending milk not Inverged have not all been mapooled.

by year inspectors?—No.

31710. But all the farms of all the dairies incide the
administrative area of Liverpool have been, and are,
frequently inspected?—They are very frequently under

respection.

\$17.11. But it is only occusionally that you go outside
the city sees to imposit—What is no.

\$17.12. Consequently, there must be a slarge amount
of milk coming in that is under no imposition whatever?

—So far as the farms thereties are concerted, or

tentic.

SiTi. Do you agree that there should be a control althibitestative body, whose duty it should be to see that all soliceds supplying milk are inspected?—I quite 31716. What special provision is made by the suftway companies for the carriage of milk from the country listricts to Liverpool? Are there any refrigreating districts to Liverpool? Are three any principlesting vash—d on thick there are.

337.15. How long does it hake a constitive of mills to come, our town the country of fairs by to Liverpool.—while part 35 comes from.

237.15. Have you a good service, from Stevenbury to Liverpool.—A very good service.

337.17. Only a minimizer of time singues in transit?—377. Only a minimizer.

SITE. Only a minimum of time elopes to transity— try little time.

SITE. But there is no especial provision made for example, the state of the state of the state of the cold—Note to ter as I can wanted to the cold—Note to ter as I can be station platform for keeping the milt charge while they are working for the teach—No: I wish these was. There is only one form in Nogland that I know of you demanded.

where that is so, use that is Nowcastle. They have a special plutfern there for nothing but milk caus. 31720. The CRATIKUS.—Do yet think some provision of this sort would be a desirable improvement in railway regulations?-Undoubtedly. Of course, in Liverway regulations?—Undoubtedly. Of course, in Liver-pool one platform is used principally for malk. 53721. Professor Marraw.—That is only at Lime-

structure—Was; only there.

01722. For suggest the ideal system would be to have a special platform, or a parties of a platform, greater than the special system over to the reception of entile, and to have the mick knowled in refrigirating wars?—Tes.

01725. Mr. CAMPERIE.—Do I understead you to say that you proceemts also for filling rife, that is mith known of the suggestion of the intervent of the would proceed it in the "Do would proceed it in the "Do would proceed it." found it, but we do not find it in the offy.

31728. Do you mean that all the mile cars coming into Liverpool have no dirt finishing?—I would not stop that.

8723. Wall, I have lived in Laucastine inputs, and
1 think you must be prepared to have a little of it.
Have you over prosecuted for dirt?—We have never

promounted for dirt, henselve we have priver found it to corten) beat would warrant procession. 51726. These is a clause in the Food and Druss Act which says that the processition lies because the article is not of the "nature, substance, and quality "deman-ded by the purchaser. Would you led justified in ded by the purchases. Would you had justified in processing under that clause, if there was obvious dist-in the milit—I would, if the was obvious dist-in the milit—I would, and the military of the under this dataset—I do not know. OIT28. How been seen less processions because of the presence of freeign militer of this induito in the raids consider—Note in Liverpoot; but I have known article would be Not in Liverpool; but I have more of his being does. Il 720. Do you, think it would be a tair gerind for procession? Might I not say if I received mills, and found unlid matter in it, that it was not of the sub-stance I demanded.——Professor Marrian.—You would be getting from that

Professor A. Strasman Decreter, M.R., C.M., M.Sc., examined.

31783. The CRITMAN.—World yet kindly stake, for the information of the Commission, the define whole you undertake for the Manchester Copycanton—L am Director of the Public Residu Laboratory corrasered with the Manchester University, where for hesterich-gists, one character and myself, one assumant preducts art titles by the Copyonition or the medical orficers of health of some eighty samilary districts, for the purpose of discovering, by hesteriological and other methods. what is the nature of the illnewess from which patients are suffering. In addition to that, I examine milk samples, earaples of water, and of food of various kinds, Siring. In the state of not they are sound.

Siring. In it your opinion that the holling of milk interfera in any way with its food value?—The infling Distriction its key way wast us root while he was a common of mile deep, to a contain extent, between which sho food value of milk that it to may, if you compare helped milk with absolutely feels sexual milk. But in principle one should not compare helped milk with pure milk, but with milk such as it is found on the market, and that with milk such as it is found on the market, and but with onlik such as it is found on the market, and as can be bought by consumers in hig bown, and also with rolls cotoning from cores which its many conce have never been cannaried or inspected, and the health of which is not known. Taking crarything into con-alization, I any that belosd milk is notwithstanding the elliphi refurtion in its notitive value, much safer and better to use for the feed of infunct then the milk and better to use for the feed of infunct then the milk in the contract of the contract of the contract of the milk of the contract of the contract of the contract of the milk of the contract of the contract of the contract of the milk of the contract of th

couldn't gentlement towarmanty resistance, which was designed, which was wead in above negation, would up not be expected, would up not be supported in a color and the state of the state

should be conducted efficiently. There are many people who allow the mill, to go on beiling after it has been rused to be boiling point. \$1754. To continue beiling?—Xes. When that is, down the mill: instead of being palaballe, becomes done the milk instead of being palatane, occomes, mailer unpleasure to the taste, and less incorniding. When I speak of boiling, I mean simply placing the nulls on the five, allowing, it to me rapidly to the boil-ing point, and then taking it off. That is the way in which milk is arently treated in Prance, where boiled which milk is execulty tested in Pressor, where builds milk is used by a very large part of the population. \$1700. You have certical our a surrier of interesting appointments with regard to technical health, and you would not be produced by the product of the certical Would you be pool except to go through the series of very certification of the product of the certification of the certification. For think it would probably more your lists to go repleasability through your gapact's your lists to go repleasability through your gapact's your sum so no new passion that the very super was prepared at the re-quest of Mr. Stanton, who told me what prints you would like to have discussed.

33:186. Will you now come to the passionization of milk, as, recording statisty the danger of technomicus. infection?-In my experience, and that of several other infration.1—In my superience, and think of several other charvess, the pasterinskin of mile, as usually our duoted, does not recove the danger of infrosion excitesly, but handtalkes it. The selecting for the pur-pose of my experiments a range between 150 and 180 degrees Fish. I have included all temperatures which can be used for the purpose of pasterining milt with-sea them.

and beaut to use no set are used of tanana even the milk which one can get on the market, and even than milk obtained from cover which have not been uniter perfect control by efficient veterinary inspontion.

31739. If pure sound milk could be obtained, which out altering its taste, and also some of the higher temperstone used by some observes, and of which the quality of the mile is altered. Between 100 and 100 degrees Fah., temperatures at which very little change taken place in the milk, I found that by long exposures. p to six hours, it was possible to reduce the infedirity the milk, and, occasionally, to remove it entirely, as exposure of fifteen minutes to a temperature of 183 An exposure or mnown minutes to a temperature of 100 degrees Fah. was fremd investigated to reader the milk shelcirally non-diffective. At more of the temperatures at which I have experimented have I been able to obtain constant restin-comotimes the milk was disin-fected, sometimes it was not. What I noticed, how-

ever, was that after long exposures at the lower tem-

Professor DELEPTIES .- STA November, 1912. made from cream heated at 170 and 180 degrees F., in

paratures, the unik, though still infectious, produced subsections lottops loss axiomáve thus the untrested side. But these experiments had the defect of being wade with milk artificially intented. 31757. Professor Marran.—Do you find aroun more assistant?—I'es, it is; but all dairy produce is capable resulting to the lemperature: I have mentioned. These first experiments were made with corner, because the object I had in view was to accretion whether cream said for making butter could be starilized. But to my great disappointment, the results aboved that one could not rely upon that method for the purpose of utilizing teleprotions milk,

solverticate frame. BYTOS. As the serious was inconsisted, with the collecte MYTOS. As the serious positions to the collecte control of the collecte of the co the action from of fewer summing that we recruitment the under I made two such of experiments. One set at a temperature of 27 degrees Cent. (174 degrees Fab.), the other at 22 degrees Cent. (168 degrees Pab.), the three strength is brought the temperature of the nrik to a point higher than that used as collinary pas-teurisation, and I found that in both sets of experiments, grinos-pigs inopulated with the treated milk breams infected.

51750. The CHURMON—And the results were defi-ted—Yes; definite. The only effect that was obtained verte delay of the inferies. 53740. Mr. Witson.—Comparing your methods in the laboratory with commocoid pasticuriation, Dr. Delá-pus, obviously, I take it, commortial pasteurisation would be much less efficient and acquired, and milk weight pess through which was contrally as such and such a temperature, say 80 degrees, has which had not really reached that figure?—That is no. In the pro-cesses, which are extendively used no a large analofor the pasteuristing of thousands of gallons, the tern

51741. If the build resist trustment in your labora-tory experiments, they are still more likely to resist it where it is pasteurisation on a commercial scale i-

HER. The Community—The size was maken would be stored by the Community of the Assessment and it is a control of received in the higher products the arbitrary and the Profession and Arrival and Arriv \$2742. The CHARMAN,-What do you think would be crasi temperatures, low and high, of pasteurisation.

After preparing these products according to the usual duly practice, he cout um assembles of the butter, and of the butternilk. I found that the butter which had of his 'butternille. It bound that the britter which had been made, with recomm state for the mission at a temme made, with recomm state for the mission at a temperature of the state of t Stuch the same as cellinary well-toyponed butter, but s Superstore of 150 degrees F. was not sufficient to kill the nathonesis and nutrefactive hanterin. The butter

made from everal banted at 170 and 380 degrees F, in-stand of becoming rested, because prints A. Raman lands: in huster is not pleasant, turi it is not actually replaced prints of the prints of the standard way. pleasants. The samples of butternilk showed vary pleasants. The samples of butternilk showed vary pleasants. The samples are butternilk showed vary pleasants. The samples are butternilk showed vary pleasants. The samples are butternilk showed vary pleasants of the samples of the print of the prints of the samples of the prints of the replairy. It was containing a large number of puterha-ternile prints of the samples of the prints of the two because on the second day, and the a puterk many of the format day. By some canadiscs I have been the or the format day. By some canadiscs I have been the prints of the prints of the prints of the prints of the two pleasants of the prints of the prints of the prints of the samples of the prints of the prints of the prints of the samples of the prints of the prints of the prints of the samples of the prints of the prints of the prints of the samples of the prints of the prints of the prints of the samples of the prints of the prints of the prints of the samples of the prints of the prints of the prints of the samples of the prints of the prints of the prints of the samples of the prints of the prints of the prints of the samples of the prints of the prints of the prints of the prints of the samples of the prints of the prints of the prints of the prints of the samples of the prints of the prints of the prints of the prints of the samples of the prints of the prints of the prints of the prints of the samples of the prints of the prints of the prints of the prints of the samples of the prints of the prints of the prints of the prints of the samples of the prints of the prints of the prints of the prints of the samples of the prints of the print with me no recent of wman toos proof have repre-table buttermilk obtained from eream heated to 170 de-greus F. But the buttermilk which had been obtained from eream which had been heated to 100 degrees F. main erbinn which had been helded to less degrees F. crisitions where he served days, and them beckers maded like ordinary winy or bestermill, owing to the develop-ment of holfs sold becture. The bystermille which had done from orders not heated at all behaved way much ike the buttermik made from the cream bested to 160 like the buttermilk made from the cream basid is 110 dayres F, but it become sor a little qualiter; three days quicker than the other. I have also made experiences with multi chained from cover kept on 5 drem near toy bross. The milk was carefully collected direct from the cover has trained bother which it had supplied to the cover has trained bother which I had supplied to milk bear, and I found that this milk kept as long as milk bear, and I found that this milk kept as long as milk bear, and I do digner Fr, without becoming start. 81763. Professor METELIE.—In other words, the lastic acid bacteria powers practifity occurring in male or milk products?—Obviously they seterd patreduction.

33744. And when you heat sails to a sufficiently high temperature to dealery the lasten acid hasteria, is is not sufficiently high to dealery the sporm of the patentiality opens, and them they develop without limit?—That is so. I think these are also non-sporting limith—That is so. I think there are then non-opering copulations, which would reside a temperature of Ri de-grees withhost being hilled. Mr. Sixtage mentioned to not its stilling me to give evidence that there had been complished sematimes in Jechnal about pasternised milk, or retiber pathernised superstat milk. I am quite belive that those who complained of the taste of the treated product were not exaggreeating. \$1765. The CHARMAN,-You ti jok it quite likely that

the flavour which, it was alleged, this separated milk had sequired was acted rutius than imaginary! time as 34760. Me. Winner—The form which the complaints 34760. Me. Winner—The form which the complaint and all the complaints and around whom it is compared to the complaint and around whom it is compared to the complaints and around whom it is compared to the compared scouled an unpleasers turis. It is true that when accurred to topocounts tarts. It is true this when malk is pastsurised with certain presentions it a suffi-creatly high temperature, and is thus cooled very rapolity, its tests is not mast attend. But then tourisation is not always conducted in that way.

terministic in non surepy connected in their way.

31'cff. Would have conditions be improved by putting
in a wall sample of the pure collers of lards and
in a wall sample of the pure collers of lards and
intermediately, after the strye of the collection of the collection of the collection of the collection would be difficult to message. The culture would have
would be difficult to message. The culture would have
not be laft in the hands of people who do not always
understand have to keep the beclarit years. Of collection
the difficulty above the based comprisined of spylles to the difficulty soous the tasse comparine or appase to mult which is either pastecrised at 23 degree or at a boling temperature. In France, where they use this sterilized milk extensively, they generally heat the milk to a temperature which experted that of boling water, sterified mitt ersenwer, were de de stellig wasse, bet dempeter which expends that of being wasse, but thay mere allow it to be expend to the siz. \$1706. The Comman-The view has been placed before this Commission by some experts that the use of startified affile for children produces some infessible of startified affile for children produces some infessible \$100.000 mills for children produces some infessible \$100.000 mills for children produces some infessible \$100.0000 mills for the children and source. Out of Days mids of startifieed smilt for christen professes seems infamilies dissenses, such as infected and seary. Occidy you offer any observations on the stage allowed professes of the search of th

The present position is that his supersisted milk not only goes sore, but it goes partied vary quisidly. It has have suggested in the course of our taxvis that highly be improved to some extent by patting in some of the same culture that they use in the creameries for star-ing the ripessing process in the cream. They have

these pres existence is authorizen shranky, and same of us thought that they might be smell are its represell— Its; the suggestion is, obviously, quals a scientific over and, theoretically, I think to one to detected. But it among maker the effective constances while case, which is not to recolled short inconditions while case, where the last its existence of the contraction of the contraction of the distribution of the contraction of the contraction of the last its educate, and tent it in each it way that no obperizonable bring bacteria me left.

pertinentle inving bacters are left.

53100. Shis separated mile, you will underwind, is only in see on the ecounty firms. It goes back to the former, and to sees it, for the most part, for feeding bit pige?—That is all the more retent why I should see steelike it satisfies in satisfies when it comes army from the satisfies when it comes army from the satisfies when it is consequently as the satisfies when it is consequently and the satisfies in the satisfies when it is consequently as the satisfies in the satisfies when it is satisfied in the satisfies in the satisfies in the satisfies in the satisfies when it is satisfied in the satisfies in the satisfies

30733. We feel been informed feel separated policy in a wholesant condition when it comes any from the cream, would be a until food fee human brings, but is in spiril by the styll growth of Lepotiments contribute to the second policy of the second policy of the second policy after secretary of the second policy after secretary of the second policy after secretary of the second policy of the second policy

here as event—The only row to much that affinity is no trash the foreass for the clear rounds.

\$1302. The Camman—The has been respected to this Distriction by their expert, that far use of this Distriction by their expert, that far use of secrety—I am well sense of that tires. I have tried to find lets in support of, or against the theory. Those and must sense any one specific. I was in practice in which the sense of the sense of the sense of the sense work, but I have serve comes across a need of thicker as our properties of the sense of the s

sod cents seress viry can's specifi. I was in presides its super pairs to the A dermin raymod to say present engler pairs to the A dermin raymod to say present security, which I could satisfacts to the use of troiled satis. The has been any practice to safety less shellers, however, a foundly where the propriets has held state the subfide of their context of being at life and fine such y have held being sink in the propriets has held state the subfide of their context of being at life and fine such y have held being sink in large quantities. There are charmed in the fine such pairs and the present pairs and care the subfide subfide subfide subfide subfide and national pairs and the present such as the present of the subfide subfide subfide subfide subfide subfide subfide subfide and likes (not interesting) consistently converted to some pairs pairties I have more use only subfide-

ments, while the attemption of cold with other liberty from an littering for interesting conditioning confrienced. Among any publicate I have correct one may child suffer a contract of the contract of the contract for the contract from some shallow. But I have duty to either the contract from some shallows. But I have only to either the contract from some shallows. But I have only to either the contract from some shallows. But I have only to either the contract from some shallows.

2075. Professor Merror.—There has how cascily the same expensions in my own bossed—When they have been state of freak and they prefer in to bodied the same that they have been as the same and the same they same been sade on the matter, in competition with orders fall in other way, they have thetheld as high contract fall in other way, they have thetheld as high contract fall in other way, they have thetheld as high contract fall in other way, they have thetheld as high contract fall in other way, they have thetheld as high contracts and the same and the same

better prices, stowing that they were in good heefth.

BITCS. The CRUMALIS.—That experience would permit you to engagest that one of the necklosh of extreminating tubercolosis would be to built the nilk on which the calves are feld.—It is a coeffi interportry measure,

nating subsculinias would be to built the stift on which to shive as feld—il is a called integroup measure, till lattice measures are adopted.

3100. Only a nathe-shirt measure—il-re, for the 3100. Only a nathe-shirt measure—il-re, for the 3100. Only a nathe-shirt measure per respect to the feeting from regions occurs. When it is pare, belling will be a measure of security in preference.

31220. If extress were fed on rull in which the beauty of the shirt of the desired of the shirt of the shir

ferrison from various sources. Which it is jure, belling will be a measure of secretary importance. \$2205. If eather were fed on milk in which the beaton's of their beautiful that is the subsequent period fluty to exclude the mallely at some subsequent period here, preportion of cases in a few weaks. I have precluded tather release in that way in a number of unitents, \$2305. Frederical in that way in a number of midstes, \$2305. Frederical in the way in a number of midstes,

and of course, incomes—There is entering to the test as the though that bolled milit by pathered military to anything to do with it. The view generally held now is that milk has enthing to do with it, soll they robship children who nafter from these diseases suffer as much three prevalence of milk as them anything also as anything also the military to the contraction of the

31/99. You carried not often experiments with regard to tabler made from coverin in which the inherite inclina was present?—Tee, six: I whiled to find out whether one could use the dumy projects from therefore sown. If has been known since 1938 that better made with sailt containing subsects bedfill, which hold here added to the milk, remained intections. It own eventy days. Zone appetraces, mask lay growth were predicted or Commany, and two frond that provides the property of the provides the provides of the provides the provides of the prov

containing aboveds hould, words in intelligent. I support the country of the coun

and I have inconsisted several gainst-pigs with it; all three artimals become interestions. Sifted Mr. Wittens.—The practical implication of 19700 Mr. Wittens.—The practical implication of this experiment would go to emphasize the unoperity for bringing all these durry products under one regulation, as regards inspection. In Inclinal was have got excharged or other. Butter made in our way is under creation regulations, and tuttee radio in order undercreation regulations, and tuttee radio in order under-

contain against a sea success in many in greater structure. The Charlance—Or proper.

SITCO. Mr. Wingoot—En the interests of the public bestlet, your experiments above that any measure applied to reduce telecretical school apply over all then darmy intel®—Chostoledy so. A militera mode of our

only irrar — the control of A interest most of conrolling overpthing.

31702. Lady Eventure.—All by-products should be under the uran regulations on new milit?—Tex, and imported products shouthered cours under the same

regislature.

19762. Probasse l'impranc.—There is no reases why larreign problem should not be brought into the same at 19762. Probasse should not be brought into the same and the same an

northed simply on a uninvesceptual examination board upon the correcting of certain wells, there are a good many samples of milk which are dangerous which would not be condensed under this method, more especially where the milk has been insuled, as is frequently done, by filterials thereop and.

19766. Frederich warrant—What celle de year bovic free—Berrey cell. The types and member of cells found for her borner than the condition of the formed free cells.

to especially where the rattle has been treated, as is frecountly done, by filteriant forcego man?.

18 1766. Fredman Rarram—What cells do you lovin to mist are very possible, and another of evils found.

19 1709. And it is very possible to tell the nature of the cell their gos first 197—Ves. There are no cells witch you could define in such a very that you need a be certain below were convicted products.

be corrisin they were movided producets.

13107. His Generater Wootforders.—And they polygundence cells?—Not there many consessantly to some polymer of his, but there are notices which are move that the polygunders of his polygunders of his polygunders of his polygunders is becopyle. The idea that there exist not electrical from supportation is periodity in the polygunders of his polygunders in the polygunders of his polygunders in the polygunders of his polygunder

Sent are derived from represention as perhelic limits, and the sent milk in liable to very more than the sent milk in liable to very, and milk in liable lib. By despite intercompleted the sent modes very usegoing the power of a constitution very usegoing the power of a constitution of the sent milk of the sent to sell the sent constitution of the sent to sent the sent

Professor Datament -- Sth November, 1912.

the test is applied by a conspected presen and proper tolercular is used, the animal being kept in a place where it can be kept under observation for two or there the test is guite reliable.

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days, his test is often reliable.

MY4. Absolute; whilsh?—Ausdordy reliable for particul purposes. There are very few curve, but bette set allowed stary in the engagine coulds. If you set a few could stary in the engagine coulds, then you can be presentedly service of further records, the conversal of the could be reliable to the reliable to is an error that is easily corrected, because a compe-tent veterinary surgion would have no difficulty in re-

organising, in most cases, by codinary clinical methods, the telesculatus cover that had falled to give a reaction through being in an advanced stage of discusse. 51773. Professor Mirrais.—They are chalculy tober-OUTS, Probence MITTAN.—They are clusteally toper-cious T.—Ves.

31778. Ifr. Winner.—At the severalt year the test becomes methinks, because the crow are advanced in the discost.—Yes. I would like to old like the imper-tion of eather should to be life in the heads of the terminal best of the head of the terminal of experts.

Do you ever out the during the con-cept of the control of the control of the con-trol of the control of the control of the during the control of the control of the control of the during the con-trol of the control of the control of the control of the con-trol of the control of the control of the control of the con-trol of the control of the control of the control of the con-trol of the control of the con-trol of the control of the c

S1778. When was the result of giving the double test?

—I counts say that we have had enough experience of —I counce may that we carr any country and the ray of double doors. We have seen that we can give double or treble doors without billing the animal.

Processas—World you invest the STITE. The CRAINERS.—World you frager the administration of the telescrefar test to all multi-yielding animals?—I would force its application to all estite as an early age, and I would suggest its applicable as an early period of life, because if you find a call of sex mostles or one year receiting it can be put on one side fortened, and sent to the butcher, and, numerally speaking, the toboyeulous lesions are found on theses Ben to be so slight that they can be removed and firsh sold without great loss. If you wait longer the lesions usually become more important. The animal, instead of theirtsig, will like valve, and the food given to it will be wasted. If you wish till n owe is a skiry owy you run the risk of greet less. The carreas may be esturely condemned, and during its fifs the anomal may be infinition to other animals. The only into whost the

the course to other animals. The only time when the in every direction is when the azimal is young.

31780. Obviously these are national questions which 11700 (Orbicolly these are statuted quartices which to be shown they be filled 1-700 the filter depth to be shown they be filled 1-700 the filter depth of the filled 1-700 the filter depth of the same time with the whole country, instead of greatly statuted its sphere of greatly statuted in the same time with the whole country, instead of greatly statuted its sphere of 13751. I single distorts the milk regoly -T-250 statuted in the same part of the same part of

51784. Don't you think that if a young suimal has reacted temberoulous, and you segregate it, you might examine it after to are whether the disease was still examine it over to are wretter the disease was sainted on had become intent?—It would be a good thing to do, and any plan should include the province of an perimental farms, where systematic observations could

perimetral feetin, where systematic observations could make till we show more than a superimental properties of the state but we don't know what preportion do recover. But I shop that when that non-ledge is acquired thereselved in the control of the three control of the control of the three control of the control

so that they would be passed as fire from tubercalosis. Mr. Laithwood, the chief veterinary inspector of the

skelper a cell la preside de des la cell la procinca di distributione della procinca di serio di serio di serio di da procincama i piciole coi dant de quality ci il da procincama i piciole coi dant de quality ci il da di serio di serio di serio di serio di serio di serio di particolo di serio di ser this foreign matter that the milt had not been properly handled. The other products I found were cells derived chiefly from the adder, and when the number of cells was very considerable, and there was a large excessed of miscus, I came to the conclusion that one could say that the milk was diseased. There were three countcion i a soull austent of sellment, shrindig that the malk was cheen; a bege suzzari of sellment due to en-nounce afort; said a large statent of sellment side to respect to the sellment of the sellment side to per ago brown! The formers were intended to sell-lment side; through south. Some one settle disciders of over the sellment side of the sell-ser side of the sellment side to the sellment side of t ices: a small amount of arthurst, showing that the

ally dimmished farms. Mainly through filtration?—Yes. That method ATION. Missily through filterabox 1—Tax. That metals of testioned so deal to extended so the entries of the sufficients between the contrary, and the entries of the sufficients between the contrary, and the entries of the stone of military. The anament of ation borne of the stone of military. The anament of ation borne of the stone of military. The anament of ation borne of the stone of military that the sufficient of the stone of military that the stone of the stone of military that the sufficient state of the stone of the milk. If the hastern were derived chirdly from dist, the more dist there was the more baselins three should be. But their was not found to be the case. Taking, the instance, the companitively clean milk, the milk which contained less than 25 parts of soliment per 100,000, the number of samples which contained less than 20,000 heeters per u.e. represented 45 per cent. In the doubtful milk-containing between 25 and 50 perts of sediment) per 200,000—30 yer cent. had less show 50,000 besteries. Mere extraordinary was the fact that a half of the tolal number of samples of the very dirty milk, with from 50 to 210 parts of sediment per 100,000, also had less than 50,000 besteris. There was is correlating whatever between the number of bus-toris and the amount of since. This was due to the toris and the amount of since. This was due to the fact that the samples had been collected after various intervals of time after milling.

GROUND of time anner meaning.

SITOL IS is reliker in the inverse ratio, judging from
the figures you have given?—Xe. One explaination is,
that when the odder is extremely discussed the neithment
is very absorbant, but the number of batteris growing
spina collivating media is not proportionally increased years collecting models in our perspectuary, where the property of the propert a practical basis for efficient control. It would be such that the self-state out to the self-state of terms with the efficient their direct inspection of farms much here efficient share direct inspection of farms and central, combined with the heater-diagonal senting of the milk of suspected cows, and a very considerable number of propin would share be required to work it. 81793. What conclusion have you drawn from the use of the tubercedin test5—My conclusion is that when the cow is under samm or eight years of age, Chryster County Council, Insoulsted sine coses. the first test seven pure a positive reaction, and two gave a doubtful reaction. Forty-five days after the first best the cows were bested again, and the seven one of the two which were doubtful in the first best one of the two which were destrict in the first best give a negative resulten, and the other numerical doublifts. Thirteen days after the second test a kin'd test was applied to six of the cover, and four of them reacted before reacted again. had reacted on the first and second test, new gave a evaluated vesselien, and enother, one of the two and given doubtful rescious before, did not most at all the other three norm and tested. So that in the third test there was evidence of tolerance in one once cely. Fourteen days siter the fixed test, still section cary. Postpace days sever me recent over, sain assesser test was applied to all this cowe, and the reveils were the some as on the first test. It was only at the fifth imperiabiles—byselve days after the fourth—that all the tuberculous cares consect to gave a reaction, (Table Splet. Professor Merran.—Suppose the experiment had been reversed, and that the interval between the first and second tests had been into than sever days, world you have got a reaction on the second occasion

then?—I permet may 31788. You know the opinion is universally beld that a prior injection of taherrolin will master the reaction that might sense from a second injection if the second injection is given as a short interval?. Yes, I know: but the question was whether the farmer could to that without eventing amplicion in the mind of a skilled inspector. It is possible, but it is not easy to do it in

generation. The life year have given us, it appears that the shortons interval were believen the fourth and fifth teel. It is the fifth teel who you get negative results, so compared with the fourth, and the fifth teel same under days of the fifth teel same bearing and with the fourth, and the fifth teel same bearing and with the fourth, and the fifth teel same bearing and with the fourth, and the fifth teel same bearing and the fifth teel same bearing and the fifth teel same the first terms of the fir is that interpretation. In the investigation that was made it was a matter of finding out whether the cown might be treated in this way by the farmer.

Tuniz showing the effects of Testing with Tuberculin Bepeated at Short Intervals.						
Refrance No. of Daw.	First Testing.	Second Testing 65 days after first	Third Tooling 13 days after accord	Perrib Testing 14 days after third	Fifth Tecting 12 days after fourth	Besult of post-morten exaculation and remarks
	7	1	~	,	-	Cue of distanavious; temperature irregular.
94		. v		×		
	×		×	×	×	Stight tuberonicals.
24 20 37	- X					Shight subeconlosis.
41 42 97		××××		×		Advanced tubecoulous.
	2					Advanced tuberculosis.
			Not tusted.		Not tested	Advanced talescolosis.
					Not tested.	Hoshiky.
35 51	×	×	In oalf; not	×		Tuberculces slight.

x Mesos poplijne resotists. - Manafiles.

\$1700. That, of course, is a possible point. But looking at it as a possibility, suppose I am going to self an azimal which I know to be televation, and I give it the televatin test to sight, knowing that the parchaser himself will test it to-morrow or the following day, will the test I give to-night master the mastisen of the second test?—I cannot say from personal know-

age. 31791. This is very important, of course-SIFPL this is very important, or correct A regions for French expensions, you are probably aware that a large number of saimals—10,000 or mare—which were broasts into France from Germany for sale, did not brought into France from Germitry for side, 6th 506 react under the test, and the explanation was found to be that they had had the test shortly before on the other wide of the burder—I can synthe see your point, of econor. I can imagine the thing being done by rather expert persons, but I think it would be very difficult for farmers to make a practice of injecting telescoria themselves without running serious risk.

gentic frond. 31702. You see there is no control over the test at present moment. Anyone our inject the lubercalin.

etorpt under pasper sepervision. 51795. I colde agree.....I have always had it at the back of my mind that I would make it a penal offence, drawn of criminal, for an unauthorized person to leject theoreollis, and for the very reson you suggest. But, of course, the free of frend council to committee of very round represent against the use of a good method, the application of the test should be in the the application of the test should be in the hands of the authorities. Xeo have to take the risk of test in other writes of life, but you can reduce it excempantly by proper logislation. But in what I have said about the test I have taken it for granted that AND MIGHT THE BENE I HAVE MIGHT BE 30. granual news

petent veteriosey warmous. priorit veleritary surproces.

S1994. The Crammax.—One recognises, of course, their crifty-disposed persons our always do secontiling that evilly-disposed persons one arrays on secretaing to leavestweet the interests of the community at large. That is the difficulty which degs the steps of the reference in overy walk of life. I suppose you are reference in every wells of life. I suppose you see scurresses, Dr. Dollepine, trids the fact that very

brooficial results bave been obtained to a certain dairy herd supplying milk to Manchester through the regula herd supplying milk to Manchesster through the response and systematic diminifection of the byros, and other and systematic diminifection of the byros, and other that question from Mr. Breitlehaut.—Ver: the supersistent to which you refore was size-ick on my activist about storder years ago. This form was testade to be supplying the supplying the supplying the property of the supplying the supplying the supplying the supplying the supplying the supplying the I had stated the Mr. Addition (new Lord Addition of Hyde), as Food Battle, fifteen specified from the supplying the supplying the supplying the supplying the the supplying another high supplying the supplying th the transcurren annual was separated from the local transcurren, and only the non-balancellous were kept. They were kept in distributed stalls, and every six months they were tasted with tubercello. The diseased orbits were repliced by new stock which previous to admission to the hard had given two negative tubecooling resoliton in the space of three months. Utilizately, is the cod of two years, no residers were found. The Poul Back representatives made in 1897, and the co-periment in Scoth Cheshire followed immediately after: There were only 27 had of cellule at Food Back, but on the South Chrehire farm which has been shuded to by Mr. Buttlehank, there are zonely 100. The work was

storical experimentally by me, and was extended after wards.
3176. Mr. Wincow.—His is extraded among any of the buy procloud famore in the antiphorchood?—Well, I. Choled and any on. Mr. Bettielbarn would have been before also to be the procloud famore in the form before also to be the procloud famore in the color of the procloud famore in this work. In the color is procloud famore in this work. In America, triberenilo has been used on a very extensive such and both his bases from the own tree years, and with no trouble whatever. Mr. Weller Law, of New York, has a very large them in energed on these

\$1796. The Ford Bank Parm experiment has been

given up apparently?—Yes; this owner, Mr. Ashkor, wast to Looden and he sold-everything. 31997. And his methods were not maintained by the man who came in afterwards?—No. All the cattle were soid when Mr. Ashkon 167 his Manufaster. SITES Professor Merray -- What do not make when you say that the farm was distincted t—The shippoin were shirely cheered of foliaer, litter, marrier, obe, and the word-noth, the floors, and everything about his place was thoroughly writted or washed with ablorythe S1799. The CHATEMAN.—In there any other branch of 31799. The CHARMAN—In there any other transment the subject of the tuberculin best to which you would like to draw attention 1—No. I think I have said that I consider is simulately reliable for cattle under eight

very of age, but that it cannot be relied upon by itself age, as at age.

That is the definite conclusion you have at 2.7 or, as based on my own personal liou. In specific of the age at which the test in a 2.7 or of the age at which the test in a 2.7 or of the age at which the test in a 2.7 or of the age at which the test in a 2.7 or of the age at which the age at 2.7 or of the ter that agr. 31800. That

cames to be reinfield, I should, however, have and even of eight years. I do not mean to say that there is anything shocked the distrile above eight years. 3880. But this seems to be about the period, pudging from year own experiment—Year. officer, some some section to be model the period, judging from year own experiences — Xree.

13650. With regard to the reaches, what course do you suggest should be followed to aspertain the moment of which the milk of these own becomes notificily dangerous? With regard to a milking own, the only way to find out with absolute certainty whether the unit is dangerous or not is by inconlation of suri-sitie mirrals. When you take the milt hous a con-ulate has rected and examine it by the of it is usually

possible, by microscopical examination, to find whother subscele bacilli are present or not. This can be done in about 90 per cent. of the esses. When you have to deal with the milk of a singin cow, and there is tubercoloris of the udder, when coloris of the udder, when the milk has become sensusly dangerous, you are find the tuberele bacilli in an bour or two by the microscopical method. Them are, however, some eases in which the danger out be

see, however, some cases to whose our camper one or revealed by inconsistion only.

31809. Professor METERS.—That is in a case where the milk is sent to you with the history that the milder is suspicious.—Yes, but often the completion is not hand on envilung very definite.

\$1804. Suppose the milk is sent in without a history SUBO. Suppose the milk is each in withcote a bistery, and you are asked to ensurins for tubertols beatth. Suppose you find a few sold has harilli there, would you feel justified its asying that the milk is burberelous?—I should not, without anishing myself that the sold list bodili were tolerath tarilli.

31806. The Charman,—In it not possible that a toberculous cow may be yielding milk in which the bacill of tuberale are present, although there is no climand symptom in the talker of the automit—It is

certainly possible that a cow may pass tobercle bacilli officiality postoner seat a cow may peak tracered rescall
with the milit even where there is no obvious disease
in the sidder. A few stray bealth may peak now and
again into the milk diste without there being any obvious teberguionis of the sadder.

33807. Professor Marran.—How do they get there?
—That is a very difficult quadra. My own experience is that these cases are not of frequent occurrence.
When tobserve hadlic are fairly apprecess 5 is imposshile to drived tuberculosis of the udder by ordinary polyhetion. Tuberculosis of the organ can generally be found on careful examination made post mortem. states. What would you do with milk mediused by desired, white women you so unto mine promoved to cover which have reached!—If there is tuberculosis of the udder I would desired the annuals. If there is not, and so long as there is no sign of the older here in the country is the country involved, I would see the milk after settlining it.

31800. Do you believe that it is possible for an ultimal authoring bean tobercalonia, without any obvious location in the addlet, to exercise a toberculose affile.

It is rather a hand quesilen, in view of what the Boyal Commitment has seed to be known that a few begins may pure into the milk wishout clinical tuberculous of the udder. But my own experience is that whenever I have found tuberale baselli in milk in any numbers

were lessons in the under-31830. Seppose there were no lectors in the adder, and you got teberele bariffs in the milk, would it not point to generalised toberculosis, to teberculosis being in the blood stream?—Tos. In such a case the odder would probably be affected to some extent fire the SIV STEWART WOODSCOTER.-In ovidence before that out of a hanner or annaven was med water we age of 15, and on whom post more one were useds, in a large proportion of easier there were tobarcele bacilli in the system, in some cases latent, in others active?—This system, in some cases latent, in other satives.—This sistements are the presence of tubercolous lesions in young shiddens as in secred with the findings of many pathologists. It has long here in known that the glaude of many children are infected early in life, and it has been assumed on good grounds that it many came this interior needs only some from tubercolous moth, or only one of the tubercolous moth, 81812. In many cases the amount was small, but it disted. Do you think that the size of the dose or the

existed. Do you tenn to make the second of toberals found in the child, that is if the child got the milk. with an exceeding amount of tablests because it is to be more likely to create an arthresh than it is get to be more likely to create an arthresh than it is get great improvement, the number of sections of great improvement, the number of section in the section of the shift. There is also the unstance of the health, but this new to get as table for the moment. The two main points are the quantity of the beelfil and the health of the critical.

health of the could.

3.833. Taking the health of children as althe, the
child who gate the greatest dose of toherole bacilli
would be most likely to show III effects.—Centulay,
said any improvements in the milk supply would results

the neutra of a torrised child who got a small done of the beelli out of a glass of milk, and the bacilli cutab lished themselves; would the child he rows or has he to take tuberculous from a subsequent indection? I have no evidence which would allow me to say one —A have no evaneuse wines wend after me to say one way or another. That point has been discussed since 1865; it has been said that there seemed to be some indication that people who belonged to tuberculous indication that people wan bettered to the facilities might not be so liable as others, and that may gested a kind of immunity. That idea has always been goven is that or managery. Also then have you were before physicians and pethologishs, but one has great difficulty in obtaining snything like accurate facts to more the securety of this shoury.

33816. In 38 not true that every adult became being

has had some of this infection? I think we could bushly exemp it. \$1816. It is not apparently the reason we recover that we are to a certain extent accustomed to the presence of the buefflux in sensil quantities. When it gris among munkeys, or to a country where it is not known, it is extremely fairl?—I think the protection we have is not altogether good protection, became tuberculosis had been increasing ever since the begintoberonous and tech interesting two same on comming of the last century, and was increasing till the middle of the century, when better byginne methods were selepted. It is only since we have begun to reduce uero sacpted. It is only since we have segun to resour the amount of tuberculous milk, more especially in forms like Manchester, that a considerable reduction

has taken place in the forms of teleroulous straighted to food in this town. If there had been this investment which you speak we should have had a tendency to to wrone you speak we mound have find a consensy to reduction in provious years. All veterinary authorities are agreed that tuberculoule has been spreading and sterensing among cattle since the beginning of last prehave. Now, a very large number of cases must have been infected by settlil. Way should then have been an increase if posterilen had been one of the effects of tabereascon insceined? Things have been quite different with regard to small-post it is well known that after an residence the persons that recover are, in the great materity of cases, projected against the disease for a considerable number of years, so that after an impor-tant part of a population has been affected, the discour-

remains in abevance for a manher of ware. 31817. Might not that he due to the growth of groun cities, the housing of cattle in vesseltable places, and so on?—That is just possible, but the continued preva-lence of the disease in cattle shows that there is no shvicus development of immumity. It is suffe a conmon belief that cowaheds are worse in towns then in the country. But that is not the case. Counhair and estile in the country are very often for worse than in

SISIR Does not the fact of recovery from a bacq disease involve immunication from that disease?—This is true of a number of diseases, has there are some diseases in which immunication does not occup. In regard to tobercolosis, at the present time we are un-able to my whether an attack confers any immunity or not. I have been working at that subject for nearly 25 the Royal Communion statistics were produced to show years, and I have made many experiments. I have

exceedable extinuits in one has above incombing the other lang one some previous receasing, and I have never yet some that can investigation had the slightest either upon the development of inharmation interest sensed by sintential and the state of greater remainson the second shreld not have produced the same effects as the distdistribution of the state of the state of the same office. It is the state of the stat

to his solely—not. Within This is conformable as inmore is advised not to use if for any other pures hanthat of feeding pigs and other admints, and he per that of feeding pigs and other admints, and he per \$1800. Mr. Witager.—Our object is to be its score proteined selection that could be put into action at ones without unrescended delay or exposes. Would it not be reasonable to get ful of the obviously diseased admints forth.—That is almost an immediate duty.

actually first I.—That is shrown in immediate duity.

\$1500. One cost of that with a measurable hepe of
getting most of them not of the way. —We have been
seen that the state of the state of the state of
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EIGH. That removal is the layer proceeds of salness, instead, and I confeet. I make mysel contracted, then all the orbitons we have get, that there is recognized years—by the plannin brings are consensed, if you remove the core which are affected in regularity word,—by the plannin brings are consensed, if you remove the core which are affected in appointer would be to a considerable stead protected. Dot if you deal with the question from the agricultural state of the contract of the contract of the procedure are recommissed to you are yet by your griding into a state of the contract of the contract of the contraction of the contract of the contract of the contraction of the contract of the contract of the contraction of the contract of the contract of the contraction of the contract of the contract of the contraction of the contract of the contract of the contraction of the contract of the contract of the contraction of the contract of the contraction of the contract of the contract of the contraction of the contraction of the contraction of the contract of the contraction of the contraction of the contract of the contraction of the contract of the contraction of the contract of the contraction of the contrac

whether this was their to make a large glott in province the termination of such as the proper processor. It is a many that the proper processor is a many that the proper prolated. Thereing in a different point of view, it touch a proble touch displaying that is the dark obsolute; the contrastive of the proper processor is a many than the proper processor is a many than the proper processor is the contrastive of the proper processor is a many than the total form you got the wintersor works a many to the fact that the proper processor is a many than the total processor is a many than the proper processor is a substitute working with the substitutions and the creat wathout working with the substitutions with the contrastitution of the proper processor is a many than the authority working with the substitutions with the contrastitution of the proper processor is a many than the substitution of the proper processor is a many than the substitution of the proper processor is a many than the substitution of the processor is a many than the substitution of the processor is a many than the substitution of the processor is a many than the substitution of the processor is a many than the substitution of the processor is a many than the substitution of the processor is a many than the substitution of the processor is a many than the substitution of the processor is a many than the substitution of the processor is a many than the protes of the processor is a many than the processor is a constitution of the processor is a many than the processor is a substitution of the processor is a many than the protes of the processor is a many than the processor is a substitution of the processor is a many than the protes of the processor is a many than the processor is a substitution of the processor is a many than the protes of the processor is a many than the processor is a substitution of the processor is a many than the processor is a substitution of the processor is a many than the processor is a substitution of the

species under control central, and to have the heaving all controls and to have the heaving antiportion power to accept the superior of the property of the importance was being properly control to the property of the prope

COMM 101 to 100. The property of the comment of the

the applications consume are now received and its angle of the core Mirrora. — One receive and it is continued to the many and the inspector, who sends it to you. He knows who has sent their colle. You find it is infactive. He can communicate to the another, when the institute of the pion that the communication is to the another yether of the pion that the communication is to the another yether of the pion that the continued of the confidence of the confiden

GIRCH. The CRAINCEAN—Small ceils are a danger and a technical—The distincts I speak of must be controlly controlled. In each distinct a certain control and the controlly controlled. In each distinct a certain control and the controlled contro

econical for Ireland to divide the sufficienty.

and with a shell of veberousy in-

The Commission adjourned till the 9th Scornber, to Birmingham.

FIFTY-SIXTH DAY .- SATURDAY, 97H NOVEMBER, 1912.

The Communicates met in the Queen's Hotel, Birminghers, at 12.15 p.m.

Present: ---P. J. O'NEILL, Esq. (Chairman); Lady Evebard; Miss Margaret McNeill; Sir Strwart WOODHOUSE, M.D.; ALEC. WILSON, Esq.; and Professor A. E. METTAM, R.SC., P.R.C.V.S. S. W. STRANGE, Esq., Secretary.

Mr. Joses Malcotte, P.B.C.V.S., exemined.

31928. The Guananax.—Mr. Maleshin, you are a positioning veterinary surgeon in Eleveragians, building an appointment under the Public Houth Committee of Elemengham Corporation?—Fee \$1900. Would you kindly inform the Commission what stone here been telen by the Public Health \$1900. Would you knotly tolton the Commission what steps have been tolton by the Public Health Committee in Birminghen to control the milk supply of the city?-From the votoriner, point of view same may be manual under three heads. First First, the inspection of the whole of the dairy cows and cou-slacis within the city over-there ere I70 delay farms shock within the city once-where are IFè diety Jaran within our precess city are. Second, the taking of a number of margins of mile, both from the city are tracted, and subsequently, if any still is from indeed with tubercit, going to the midde or outside farms and exemining the bards for the midsted own, and having that own shanghiand. Third, dealing with the traction of the city of the city of the bleecholds in force governity, with a view to classing the city of the city of the city of the city of the second city of the city of the city of the second city of the city of the second city of the city of the city of the second city of second ci

\$1000. In your public health nathanity visited with the same powers enjoyed by Manahester and Liverpool of cabable important—I believe to. If we find any surrols of mith from any optible had infected with sample of milk from any outside bead infected with tiberlet, we one got a centificate from a Justice of the Peane, having jurisdicides where the herd is located, responsing us to go there and inspect the head, and ledge any samples back with us we strick necessary, and if we find a cew infected, then we next too the the own most be kept selled y getter from any other duty over most be kept selled y getter from any other

\$1931. What proportion of milk sold in the city is sized within the city area?—I am afraid I can soarcely answer.

31982 I only went an approximate figure, nothing too definite—a kind, a fourth, or a fifth?—A fourth, fifth, or much, or something like that. Good quantities come in from outside by rail

31955. From what area is it drawn-what distance? -It is deave from a distance of fifty miles —Li is deave from a distance of filly miles.

3044. During the time pure public health southerity has attoyed these porces of catalate imposition, how the common the control of the contr

soill, that you go into the country to inspect the was producing it?—That is so. 51956. Here you endowwerd to improve the condition of the cow hyes, and the manner in which the milk is burdled?—In the olly we have. 31937. With what success?—With considerable are

cess. The regular monthly extended of heris has sourced greater cleanlines, and the pointing cut of wasted cows has induced the cowkrepers to get ad of these cown somer than they would otherwise have

force.

1988. Have you any reason to believe there is conclusioned, or want of describing the part of conclusioned, in the part of conclusioned, by the conclusion of the part of the concept of the conclusion of fluores then synthing else in severing describess. It clean will smealy also depends upon the proper our clean milk supply also depends upon the proper ocu-struction of sheds, and we have had a considerable amount of influence in hecoing own and the mil-

supply eleaner by having a number of recasheds aftered in their internal countriction.

21290. Have you can professional inspectors as well as professional —No. There are these velocinary as professional?—No. There are these velociners inspectors—myself and two meintant velociners

The city is divided beto sections?—The city d into two sections. The other men do the is divided into two sertions. The other men de the regular inspections, and I come in in questionable \$1941. In consultation?—In comultation, or if we

sunt alterations, and so on.
Sidd Are you satisfied that the cows that are housed in the city hyves are in builtly and hygienic hanned as the 'city lyres see in healthy and hygienic accreasings—"On the whole they ere.

31983. A great imprevement has taken place in second years from that point of vere?—Distancity, 31984, Manny due to the additional interest taken by the public bendix inductive in severing a healthy and clean milk supply for the population over when they presufte—"Dest; cassistatily due to the health

31945. Have you found willing co-operation from the 339M. Have you found willing occupration from the convicuous no currying out augusted importments?

—Morely so. There have been a few objectors, but no so the general body, if you point out to them the advantages of such changes as you want, they, so a rule, as practical trees, see the advantages, and fall in -th the 31946. Have you ever been obliged to have recourse

HIMAL Rive yes ever bore shipped to have recome to be proceeding, by the purpose of microtic the other states to be proceeding, by the purpose of microtic the other called r. And delt the magnitude and relative to control of the proceeding of the

inspector.

IIII. I understand it is not part of your duty to supervise that, but such an officer is in existence?—Such an officer is in existence. The veterinary surgeon also comes in there; in cases where the milk has been found defective, and where where the main has been term actions, was where there is no evidence of fraud, the voterinary surgeon in sent to imspect the form and to interview the furner, with a view to tracing the defect, and advising such alteration on will improve the quality of the milk. 33932. In igross cases of adulteration prosecutions are instituted?—That is so.

incinited—Tends is so.

[1907a, And vehicle in the latter plans is a given plans in a given plans in a given plan where the effects is sensed pressions on the convenient—Their is not and particularly if the substitutive (finite states is no incidence) than in the plans in the plant in the plans in the plant in the plans in the p

states relating to the complaints which have been ranks with negard to the milk examine from the form New G1955. Do you find they see willing to do that; do thay cloy them cockers—Antend invested; "sipps, And if the conference from a reasonable explanation of the conditions from to calcid, and premises to he gross courful in fairer, where there is good careful in fairer, where there is good additionation, no presentation issues—New, not in these

\$1007. Have you the city drinter more absolutely under control than those that one absolutely in country districts—Undoubtedly. We impose the signifi-darities from the legislate and the saming point of aw periodically. \$1968. One our quite understand that, because it is

score that harp centre of peptidism, from many cannot be harp centre of peptidism, from many points of view, as well as the peint of view of mile couply, that these should be kept as a proper condition. What I want to knew is this, low would the efficiency of the core bytes in the crity compute with these that one stranged in the coretry—Evn have two different chance of men propiler in the tony and in the country. classes of spen usually in the form and in the country. The form distryment is meatly a run who goes into the country and boys the best con he can get, and then as the end of the nully period he suith her so that. The dairyment in the country is a different men. He is more often a becoder who breeds the cover in his lend, or if he layer them, he retailes them and breeds to

Of H life says means, through faller and the life says lifetion orises between 1939. I know, Has any lifetion orises between side a otherwises controlling plate books in a distriction from which said is sent into the erly?—Not so my Atomiciga.
Atomic You have nover found may bustile

marifished agency you, or any of your subardinates, when visiting these datries for the purpose of secreta-ing the emailions estiting—Nose whenever. 3300. Have these Paidie Health Authorities ever been asked to ex-spected with your Council in sacing that the supervisions recommended by you would be easied cot?—I don't know that they have. The Medical Officer of Health, as he will tell you, has co several consistent communicated with an outside Medi-eal Officer of Health. I don't know that we have ew career to Bosne. I come aspectable we make away shingleted for alterations to the cowskeds; when

we have been outside we have confined overeives simply to the question of tubercalous core, and, as a senger to not quelesco at mineramos news, find, it is rule, we have not much difficulty in guiding the dairy farmer to deal with these.

31003. Your administration to far has not exclude you to offset much improvement in the condition of press for the country districts!—We have not anterest of the country districts!—We have not anterest.

feed with the shods in the country districts; we have peperded that an orbitis our jurisdiction. garded that is definite our personnel.

\$1960. And your inspection has been entirely conand to assertaining the health of the stock producing fixed to assertelning to the rolls !- That is so.

time colife-That is so.
31044. In what causier of cases have you been
ediliged to make this (appearing on the report of your
agency in the present year, but a few a you. In the present year, but releases you fit case,
we have made ten different happenings, re within we have been considered to the contract of the present year. In the contract of the present year, but you want you want to be a present year. In one one to think to there also medilize no cone in which to there also medilize no found in the present year. the milk; what is the first step you take?-We receive see mini; with is the first rise; you make?—We receive a note from the incedice office, who has received it from the hasteriologist at the University, acquig that struph is o-accles to indeeded. We keep the whole record of where that semple came from in our own office—they don't know of the University where it came from. On receiving the note we get a neight ence—say don't know at the University where it came from. On receiving the note we get a megin-testick certificate, authorising us to go is the form. Either myself or one of the necistants, chirdly the first Solder Expent or the or this necessary, curry tot true soldstant, goes out and execution the cows, and if he finds one with numeralsolds tuberrulosis of the udder he informs the farmer, and requests him to have the new alonghiered. If, as is more frequently the case, there are several cover with heaves of the takler.

es well as the individual samples from any suspicious as well as the minratus samples from hay asserting over. He brings there head to Hirrodysbum, and they are tested again at the hericalogical laboratory, and, a a rule, the intected over is detected. Unfartnessely, the delay of that isleet some time; it irreduce a recent's delay. That is the difficulty—one of the fifth celline.

57666. H your aminimant had reson to suspect a centaria cow, which he found in a lyre on the day of his immedian, social to order the discontinuence of

the milk supply from that one? —He could, writh that 's milk was examined properly \$1997. Do you ever have resert to the tuberculin test?—Not in these cases. But in ridding certain spacific herds we use it largely.

\$1968. You have never used the tuberculin test for

the purpose of accertaining what particular sow in a hard was yielding unile infected with tubercolous busili, whose there were no other clinical symptoms bould, whom these were no other efficient symptoms present from the milk high—No, we have not done that. As a matter of fact, it is not unused to flod a recoving owe give milk to perfect condition, and the text in that case would not be relaids as argueds the milk

51000. Are my of the core in the city heeds or dalfies rejected to the talorestin tert)—Yes, when we are electing boyle of toberquients, not, as a rein, 81970. There has been no general application of the test? - No. 31971. Is any milk offered in this city certified to be violated from hards that have passed the tuberculin.

on N-Tes. Thut he so. 33972. What mannior would those bo?---We have altogethen tested thirty hards. 33973. Are they width as without the city tons?---Mostly in the cay, or within an area of ter miles of

m city. \$1974. What proportion of reactors did you find?— 36,81 53975. Out of what number?—838 cows. S1976. You seem to be rather fertenate; the number i recours it rither below the normal standard?

Professor Marran.—He means 86 per cent 9—Yes, there out. We have had them may. 30 per cent. We have had them vary. 31977. The Chancean.—Some were were than others?—We have had three hards practically free; \$1908. It was a hard selected only in the ordinary by an intelligent cowlesser. I mean without

way by an intelligent conference, I mean without having recovers previously to the tolercoun per-These had been no previous recovers to the tolecoulin test. The heal had been beed at home for many years, not say bright.

3070. It wors there exists on the farm, and recruited from salmula that were called on the farm as time want on?—That is so.

S100. There was no introduction of fresh blood, and consequently, no introduction of infection. That is no. 3100. What is the highest percentage that you S1982. What is the his found?-I think it was 85 county—a treat is was so.

IDMR. Dat any special circumstances point to the
probability of that result, either in the appearance of
the head or in the care to which it was subjected!—
The brill was a fair and worful head to look at, but the buildings were situated in a lend of hollow, and

there was little opportunity for good vertilation.

\$1960. Or draining 9-Or draining sway from the
place. Apart from that, the herd itself looked a good,
servizeable, useful herd. You would say there were serviceable, seems need. I on weeks may some word many affected by the normal appearance they 8200s. From the essent observer's point of view

Rivel. From the samed observer's point of view, there was nothing to buildess that the theoremin ten would have given such very depleatile results 1—80, it says includes the contract of creatives.

Livel. What inspensed to the resulters in that east "The owner thought it was too notions a matter for him to go on with, and he did not proceed any further. fler the less.

\$1986. Does he continue to be a mile supplier?—

acroe. Does a committe to be a mass supposer—
if continues to he a sulfi supplier.

\$2087. Del you take any presentions when the disinfection of his bytes or premised—We have taken,
occasionally, some subset samples of milk to make
some those was no tobereabols infection coming in with the raille Sides. And notwithstending the fact that this milk-came from a heed in which 85 per cend, were reaster? more or less suspicious, or one or two cows that look wasters, then he takes a mixed strople of milk again, state with a next in which so yet can, were numbers?—Surnitations did not disclose infection in the milk.

1969. Booksribejoully, the fact is that to tuberclo beeffi were to be found in the milk?—That is ex.

1960. From what period has that been gaing on;
how long in it since the test was applied to discover,
and this very high percentage cristliniad?—Three

\$2901. And elthough samples have been repreciably

balon within that period, no naveree report has been furnished to the Public Health Committee?—That is so, 1996, And no ruffeed change has taken place, so far as you know, in the combition in which the come have been health.—The change, so far as I have. 81693. Does the milk guaranteed to be supplied from sorn that have person the toberculin test command higher priors than ordinary commercial milk?—As a

rale, it does.

\$1996. What would be the difference?—As four is to five; you would pay 4d, for ordinary milk. \$1996. An additional pressy would be charged; you mean 4d, per quarth-Zes.

31900. And 5d, per quarth-Zes.

31900. And 5d, per quarth would be paid for the milk which it certified to be from herds that have possed the tubersulin test?—That is so. the tubecould test?—That is so.

\$1997. Amongst what section of the community
would that milk be supplied?—Morely to public lessing.

tions, and the better closed of the community for entities.

\$1999. Has the Blemingham Authority ever thought
it necessary to establish a depart for the distribution of
milk as the industrial localities.—The matter has been

milk in the infinitial leadelint—The moster has been considered, but to depet was ever established.

\$1999. Perhaps I should sable; heave that quantize to the medical clother of bestlit. What intends of cours are security kept to the Milkinsh.—They are mostly the shortkom breeds in this anighteenheed.

\$2000. Shortkom precision, not pure horty—Ucon-

2200. Sherthere over-even.

"Help, and pure-life, and with to the odly very in 18001. Does the supply of milt to the odly very in 18001. Does the supply of milt to the odly very in the orientar and winder marked—Yes, it is a certain extent. As a rule, in the remance resolute there is extent. As a rule, in the remance resolute there is extent. As a rule, in the remance are the supply of the rule of t

SMALL Aft here many miss Moops in summargonary. Two, a good many. I cannot say how many. 32000. Am they registored?—Yes, all regulatered; such office inspective my care of the inspectory of health. 22001. If adultmented mylk should be found in one of those above, who would be preceded against—those above, who would be preceded against would it be the wealer or the present supplied? I think it would depend on circumstances

to record depend on electrosciences.

2003. Whether a context exists between the
middleman and the predoces to Tan, and it is could be
proved the mid-had not been allowed from the time.

2003. Have you had move complaints as so the
confliction to which milk is advereed in the city, of its
being correlately headful and unclear.—That is a
mister that will come make the redshift offers of

mission with the cores man are necessing target of health end his inspection, more than myself. I show that Short, Notambr. In the other back in which the Short, Notambr. In the other back in which the short was the short of the same of the re-covers were they cleared out to any instrument—as a refer, the method was to separate the best. We expe-mit them this interest and free sections, and as some that the same of the same of the same of the same of the same to the same of the same of the same of the same of the same same of the same same of the same of the same of the same of the same same of the same of th rate them little infreeded and free sections, and as som as the militing period of the infacted perion causes they are said as fat. The others are retained in the

25008. You have not had the opportunity of following these beside to the shatter, to assertate what conditions were revealed on post-mortem examination?
We have had an opportunity in a number of cases, and it has varied a pool deal. In quite a number of once the amount of larice has been assertingly steally vary difficult in some cases to detect it mmono. Have you over discovered a once by which distinct reaction has been given to the inhercollin test in which you folled to find subservates between in the body?—I think I remember one case in which we would have had difficulty in establishing the statistics.

of subroulesis.

5000. Would a post-morten examination to carded
5000. Would a post-morten examination to carded
on with sufficient case, and minutesian to cardel
you to assertain positively?—You may readily get in
searter that will not show ecliment playfield or nabed

are ovidences of tuberculos 32017. Even on clear examination in post-mories; Even close commination in post-meeters. I bel-

might seedile give a single reaction and still not above \$2012. If visible leakens were formed?-It would be my difficults to the ordinary symight, You might, but from the ordinary exemination in the

abbatoir no man might datect it. \$2014 Professor Mirroun.—It is possible for infec-tion to be present, and still no beam be visible to the naked syst.—That is so.

20015. The CHARLEMAN.—What properties of cases in which proceedings were instituted would refer to milk mixed cuttile like city area; in the milk coming into the city a pure, a better wife, then the mile reled within the city send - If anything, we find a slightly larger percentage of wifts from outside effected with tubercolouis than those from incide - not such a

still there is a distinction.

\$2000. You would really expect that there would be larger percentage of sound outile in the country?-put it down to the deflarent importions going on I pit it down to an amount important gauge on.
If they were left enthely alone, there poolably would
be a bigger percentage of milk inhested in the only,
but needs we have monthly spriemated tospection of
could be the city, and as a consequence the dusting of normals that are wester, and don't look right, we get a smaller percentage of infected miles hands the sety

Mr. June Marcouse,-9th

a stronger permittings of infection relief has deep than continue. South you think it desirely that the same SOUT. Would you think it desirely that the same supervision which you correled in the city about the spoty to all sensors of ones mending milk into the city?—Contrality. 5008. And would you think that could be best seconglished by a uniform administration by all loos

sectionities?-By each local sufficient carrying out a emiters every of lespectics.

3019. Would you have that shortly defined and hid down, so that there might be no varieties between the different local sutherities as to the standard of efficiency to be afreed at?—Yes, as for as possible. efficiency to be since any—nee, as we we present.

19220. Do you think it is extremely unlikely that a
miltons standard of efficiency will be established unlikely
it is controlly controlled?—It would be difficult to get

if unless there was control control.

32021. Perfusor Herrax.—Would you put it under
the Beard of Agranitone, Mr. Malcoln?—I think they

the Beard of Agriculture, are cought to have a vector in pt.
2002b. Or would you put it under the Local Government Beard There are certain prints that indicate the Beard There are certain prints that indicate the ather. From the health position while the seent Bouncy—meet the occurs. Press the health modified one, and certain the other. From the health modified officer's point of west it would naturally occur surject the Local Government Board; but from the continuity delay Done investigates course; one from the commerciants ferrors is point of view, be, I believe, would great it-and in many senses it would be better, to be make the Band of Agriculture. Tobercolonic, in my opinion, in one of the conditions that about be death with through the Bosel of Agrandbau, because it is countially a contingion disease, and they have the administration of all other occupances disease in their broke. There does not seem may pushfishe enseen why wen-should deal with one contraptors discuss maker the Level Government Board and offices by the Board of Apricollarse. On the whole, I think the administra-tion, so far as indoculated in consecuted, should be used, so me Board of Agriculture. 190000. The CHATTMEN.-Do you ever find it necess

2000. The CRATRICK—Do you are find it uncersary, to colore a look subturity to simples, a cary you don't not only not colore a look subturity to simples. A care tool to use a good deal of distraction. We recognize there we have no absolute power to colore a core's disripline as afficiently in some cases to getting the former to have been core to colore a core's disripline to be core to be core to be core to colore to core to colore to core to colore to core case, if I throught it desirable. As a result of that the difficulty of having the cours singulated has precisely disappeared. Every core since them has been simplified. We have made a post-morten in such a contract of the contract of the contract of the 1500th. Mr. Wholes.—Then you speak of every core, you maken every cow whose mile has been bread to contain toberedison bettley.—Every core whose mile is proved to contain tubered to made.

18005. Prefessor METTAM.—What does it or Since Pubrancy till now we have killed ten core the net cost to the Department has been 431 1fa. sloen in court?-20026. The CHARLESS.—So you think it desirable to offer each terms to combuspers as would resure their co-operating with the public health authorities by directing attention at the first moment to an unimal which was respected of inherenticis?—I think it is a very good thing for a cow-keeper to get score compen-

mation, and greationly make it is his informal to ecoperate with the suchcitists in starging out those own. At present we have it to our bye-laws that every southerper shall inform us if there is any ow supported of tubercalcular but as a motter of feel it in a dead letter, for they never inform us of any 2007. Professor Mrrraw.—Is that bronuse you are round so frequently?—I don't timb: it is. I den't flack they seem to realise the condition or pay much

attention to it.
19038. The CRUSKIN.—From the position point of view, it has not committabed much?—It has not bacourpets as one acres at any acres and acres of acres o complished much complished moons. 30000. You think there is need for some further Mr. Jone Malcolat.-Oth Nevember, 1912. development from that standpoint so order to non-

the prompt detectors of an animal that is suspenses?-You, the general system of importion that You, the general system of imposition that you not substrowed in a question put by you a short time age-\$2580. Caless inspection was universal, and carried out systematically all over the country?—Yes, impos-tion all over the country. Then there ought to be some financial indecement to farmers to report these

suspected cases.

31061. And if the country is ever to be ad of this
socrape, don't you think universal application of all
precautions is essential?—Absolutely essential, if ever

greatifices is elemental; —Absolutely elemental; if ever on a giving to pick of it. . I know one local was a giving to pick of the pick of the pick of the subsolute of the pick of the pick of the pick of the subsolute of the pick of the pick of the pick of the honder should provide at all being dears! —That is no, the pick of the pick of the pick of the pick of the latter is a scalar associated of good done by giving of object leasure in what can be done in certain introls. Side, so the second of good of the pick of

Bills, it is a "falling bit country of evimentation is commonable the procedure must be process."

General Advanced in the process of the control of the con

quickly? I searcely think is would be sufficient in the experience to enable him to my that the officer was subjected of being theoreties. The continues of the other morals conditions of the under.

\$2000. 70 being them all out1-27 year main to the continues of the continues of the under the continues of the vertical points of the

and the country.

31008. I quite agree, but one would like to improve all machinery by directing the imposition, so far six was harming possible, to suspicious cause at the certifiest possible memerati—No doubt, it would have a hencifold effect. \$5000. It would not be a sectors thise electristra-

It would not add enormously to your civil, for example?—Not oncemenally. It would cause us to visit serious here's more frequently than at present. It would add very little to the work of the present. art, so far as we are locally concerned.

sized. Lady Evenuera.—What do you think would be far compound to pay a furner, what you'd be the maximum?—We have mode it here a maximum of At-le was predictally recognised that were few sees with toherculeus whites were more windle than AB, and it was agreed to give half value. It is every ever wor will find a really good cow affected with a teleprocham dider, although it does sower, and he had to the 22042. You don't think it would be better for the health authorities to pay the full value, and let thru dispose of the carcavess.—Probably it might be fully se existencery if that your cone, but seeing that the thing is here a voluntary matter, the committee thought that if they gave half compensation, the

lought that if they gave half componention, the resers would fall in, and that has been the onne. hen again, you may have tuberculosis of the saider Throu again, you may have inherealtonic of the utilier and the other peri of the animal may be quite fit and the other peri of the animal may be quite fit for human food. In that case it was thought best to leave it with the farmer to get a sum for his own. We do not interfere with what he gots from the

\$2043. The CRAMMAN .- There is a further dange from the golds health point of view, of leaving the careasses with the farmer. You run the risk of having them disposed of to a local batcher in a small occurry village, where the careasses would be subjected to no

exemination, presumably; whereas, if you claim the careas as your own, the artiful is sent to the public shatter, and there shaughtered, and when persons of the carcuse are certified as fit for human scot would be no sold, and the danger would be checked?—There is certifiely a good deal in what you say. I may say here nor sound plan is to nithulate that the cow shall be sent to our public shatteir and inspected. It always is inspected, either here or churcher; in the majority

is impacted, either here or cassionede in the majority of casam-county all cases—been. Thus the most his spectors know that they are impacting a new our demand for twhoreaches, so there is very little risk. 33044. Wherever it comes under the supervision of the public bealth authority. I would be fairly satisfied that the public beatth authority. I would be fairly satisfied that the public would be protected, but the contingence. foresan is this, where the errors would get into th hands of a local most dealer—there are such up and lown the country?—I quite agree. down the occurity?—I quite agree.

20045. Therefore, it might be seld to an industrial population as food, which could not full to be a positive source of danger to the public health?—That

20040. And if one is to bope that the dengers arising from the presonce of borties tuberculosis can be obvisted, some such precession will have to be taken? \$2007. Lady Evenage.-I think, from what we said, Mr. Malcolm, you recommend licensing, not register-

fon, for the cowkeepens. You would recommend them The CHARGEN,-I don't know that that question The United Mr. Maleelm.
Mr. Melecim.—I don't quite understand.

35048. Lady Everans.—At the present moment cow-250M. Lafy Evraum.—At the person memor cov-keepers on registered?—Yes.

250M. Tos would recommend literaces invited of registration?—I don't know. I think registration— 250M. We have held a great food of ordence before us that literaces would be more advantageous; you would became him just the same as you license a spirit desire. Then it could be below from him. The CRAIMAN.—What Lady Everard wishes to how in this; would you think it desirable that is should like

with the public bealth nuthority in Burningian to determine, in the first instance, the character of the man engaged in the trade; unbacquently that his were nultable, and that, in the event of both premises were suitables, and text, in the event of both these confillings not being present, it would be com-petent for the public health authority to may "no, we return to Econic you to well milk"?—Destincity so; that, I think, is the right procedure. As a matter of fact, we almost not up to that, although we are not quite fully entitled to do it. quite many entitled to do it.

3005. I understand, in the question of registration,
you go so far as you can along that particular read.
At the same time, don't you think it would be more
helpful still if you had statetery power to do #9—

83052. And it would, further, lead to this precaution that if a man were convicted continually for adults ation of milk, or for other offences against the regulations laid down for the production and ours of milk, it would be compotent for the public bealth suthority to say to that man-" in consequence of the fact of

to say to that man.—"In consequence of the fact of your having been convicted of circleseness, or worse, In the conduct of your trade, we return to Beenes you "5—Yee, distinctly, it would be a most similable

comps. 15033. And very helpful to the public health authori-tion in discharging the very operous duties imposed upon them?—Undoubbelly. Professor METTAM .- At the ressent time. anyone become registered as a dairykeeper - If a man anyone accords regimented as a charge expression as asso-comes and shot for registration as a shorty keeper, it understand there is no power to these, shorter special-ity of the contract of the contract of the contract West say, "He was no power short," and If it is not suffished, we saw, say, "we cannot segister you for the shold," it will be blow be contracted registration, which shold "it had be blown be contracted registration.

ever the shed is, and then we can proceed against blim for keeping coves in an unfit shed. We say to 40 lb the other way round, and, as a rule, the cowier-per resilies that, and we have no real difficulty. But it

in resolice.

would be better the other way, namely, that you can stop a man unless be was the right man, and had proper pramises.

82055. Under the present regime you are beginning at the wrong and?—That is so. 23055. The fault is committed, and then you prose3007. Ledy Evenant.—You fiel that the milk sup-ply of the City of Birmingham from the culcide teen should be wally properly looked after by the local substitute, which it is not at present. I mean to say the difference and ownicepess in the districts from which the milt of Bussingham is supplied are not properly looked after by the local subbarties?—They are not looked after in the same way we lock after

them.

(20)88. You consider, if there was one system all over the sountry controlled by a context authority, it was a control or the control of the control

power in ger wissons any softeness to the modical officer or voterinary surgeon of that district. When you get a magnitude is order you see not obliged to inform the medical officer, nor the voterinary surgeon that you are glong?—I am not saw two their them has been a closure that we could to inform the medical officer. In practice we simply get a magnitude's certificate, and go there. We have here given any entitle of

offense by deing so.

12000. The Chanceas, —You probably go first, and
sell them afterweeds? —I think if the medical officer of builth for the city decided to stop the supply from any individual form, elfarr as the result visit to a form or from some other evidence that the will drem the farm was liable to gazes discuse, three he would at once neitly the medical officer outside and he would not proceed to intendice the multi until he had afforded every opportunity for imspection by the outside authority.

2000. There is a medical officer, say, in a district outside Barningham; would it be his business or their of the veterinary vargons in the district, impacting these byras occasionally, to let you know if they found any unspitches cases of Binnes. It access to me, if there is no proper inspection outside, you are very inble to get milk infected by typical, diplethesis, or any other discuss?—That is so, of course. or other diseaser—zame se so, or course.

32002. If there is no peoper inspection from the

33921. If there is no popper suspends and other local enthurity?—There is not the same systematical temperature. The insection tic imposition by qualified inspectors. of outside districts are mostly importous of nutsuares. 2003. Professor METERN.-Lay men?-Lay men it 32084. Ex-policement -- They have done a let of work

cause, zn-poisonem--zny nave con a let of work from a smilery poists of view, but hay cannot be appeared to hove an adaquate knowledge of disease. \$0005. Would you appears of the bys-pooluots of sells, such as batter, chasse, sicinmed mile, buttonreally, soon as topicary, nosses, nonremon mile, brings under the same rules and regulations as new reality—Yes, on the whole, I think they ought.

EXCOC. At present they see not—The difficulty is that you get as much better from about. It is very difficult to legislate regularly for imported and hence

50067. You may get tubercolosis imported in your otter from abroad?—You may, but it would be in sub infinitesimal doses that in all probability it wash infinitesimal decess that in all probability if would not have a very hig effect, it is in butter, we have heard—To is in butter, unbookedly. 32000 Professor Muraau—After you veryly the public institutions, Mr. Madom, do you know if the hospitals in town scotte sufficient—A murae do, last

not all.
20050. They have not got their own herds, taber-colm free heeds, for the production of milk?—Hospitals that are under the ears of the City Authorities have

tabernells from arphites.

32071. Do they get their milk from Tybern?—A corain portion, through a dealer. It is not debvered
dinestly from Tybern to the Health Committee hosdirectly from Tetures to the Health Committee Ro-pitals, it geometic skewings one of the local distription. I 25072. In Teturn head substructure from the second is first. There were a lot of first core that work of lot give any much as supplied on the broad particles of the local second in the local second as the local feeting the head we found a substructure production of The committee second that we are supplied. We attencommissee excited time we thouse proceed to eliminate it at an little expense as possible. We sept-rated the hard into two, and all the cover that were reasters, as noon as they become fat, were disposed of

In the bothler, the larger being advised that these cover had been reactive. In only use once had the subschopf freed it necessary be coloured present who subschopf freed it necessary be contained up part of the prime of the stebul. In that case the creates was of the creamy obtained it the said by public acotton. 2020, Most of these reactions, when helled, were freen in methods outdition for exemplation—free food, We had only one, as I have sand, out of the return of the said of the control of the colour food. The other works by that we not attained to tool. The other colours are controlled to the colour food of food. We had only one, as I have said whole lot that was not saitable for food.

were carle fit.
18894. The Crustorys.—One out of twenty, thirty, forty?—There were fifty-tro. 100ty — Where was Bity-two.
28075. One can't of dirty-two?—One cut of filty-two.
28076. Mr. William — When you speak of lesting that may, and fading those were many giving evidences of tubercalous, twos at by the tubercalin test? denote of tubercustum, where we will be tubercuston test only.

39077. Note by the motion of analysing the milk?—
The milk

The mile was sheeletely clear and pure. The mile was sheeletely from tolerable infection; we tested time after time There is no supported by the state of the st

back, "we mak it is jumple in the sample good half, and the sample state, and the sample state, and we are fed to out of the sample state, and the sample state and the sam

was discussed, and the herd was tested by us jointly.
Mr. Byiner joined us so that we could then set in conjunction. We have always sent in a joint report, and we find it not very well. We find it is rather a good thing to work in co-operation with the veter-ingly suppose of the district, and whenever we are sailed in by an cutoide farmer we tay to do our terting in spirituation with his voterinary surgeon. from that hard, was it impossible, from the commercial units of view, for the ordinary occupier of had—the

officery deterrorn? I don't think it is at all impostating the head effectually, and especially of late stating are send emectatory, and especially of links are, since contagions shortion became so prevalent, you had a first to be elemed from tubecontain, and if you the subject at the same time of contagious abortion, you could not deal with that herd unless you divided it into four sections. to savisod it just tour woulders.
30095 And that, practically, was impossible?—Yes. Impossible. \$386. Excluding contagious shortion

2006. Exchaling cortangious abortion for use moments, any you have only absentation, and you was moments by you have only absentation, and you want to get rid of that, you don't think it is an imagerable difficulty on the past of the ordinary dairyman difficulty on the past of the ordinary dairyman farmer to get rid of 197—No., poswided he gets rid of the contract of the past of the past of the past of the farmer to get rid of 197—No. think farmers in this country thresartne like to do the which largues in the country themserve has to do use elimination of telecoulous. I believe you cannot clear a hard from telecoulous if you have an indected ment to mere from incorrections in you as of all influences bord said a free hard on the same form, in the same hirfilings. You must have two separately provided one for the free head, the other for the influents hard and there are few farmers who have two favors and igno soit of premises.

two nots of premises.

50.00. Then there is a considerable amount of trouble
arising to the owner?—There is a good deal of twoble,
and he must be a man existely in sympathy with you,
or he way? is see that his were keep the sulprais satirely

Mr. Four Matoriae,—9th November, 2223.

2008. As regards the clading of bulkeroolses, I believe you do it posts to rice owner's mosk!— The The Comparative exposes the bulkeroffer, and called the comparative exposes the bulkeroffer, and called in the case of the comparative the comparative the power to empty the owner's own restaining more for the testing for our, mit we pay him for good for the testing for our, mit we pay him for you have been pay thin less than a printed for one toro, and so never pay more these five generates the halfsett unriches.

has may test.

3008). You per him that for; he is paid by the
sity—The city go; then that for.

the city—The city go; the city—the city—the
that the architect—The city—the city—the
that the architect—the city—the city—the
that go; the city—the
that the city—the
that per city—the city—the
that the city—the
the
that the city—the
that city—the
that couldn't the
that city—the
that city—t

objective spiriture is activally admin with the deristation—fluid consider. There was a regulation to be but midst article, not we have serve gone second to be midst article, and we have serve gone second to be a regulation of the spiriture of these midstered and the spiriture of the benearity. We test them provided about These testing have seen for some model. These testing have seen for some model, if the first panel the test the perfects then have passed as that panel the test the perfects then have passed as the particle of the spiriture of the spiriture of the particle of the spiriture of the perfects the spiriture of the particle of the spiriture of the particle of the spiriture of the particle of the spiriture of the

for before are fee still.

31000. An argueda milk corning into the city; who takes samples of the station.—The vateriaxys anticans, if it is in connection with the probables [if it is no connection with the specificity of the milk observate, the imposer of unknown.

In the connection with the specific of the milk observate, the imposer of unknown.

The while the station of the connection with the station for harteristic plant investigation.—Yes, we do that, the connection could be constituted in the probable of the connection of the constitute might be given.

The state of the second st

times dischools of consequences with term. For Later we formed to the consequence with the consequence will be consequence to the consequence with the consequence and the consequence are consequence with the consequence

8009. The mistile is perforable, of commet—We thought as, as dispensin by ritated examination is sometimes rather difficult.

2006. Lady Brussen—II you see a new with an obviously deseard other, you take action—Wrynes—Original Comments.

Supposite the profession of the present of the present of applying tubercoils to faces cases where you that it is necessary for proposes of disascell; our year apply tubercedin to any cover you wish in principal control of the present of the pres

we started a stall apply the interestin test without the corner's samelies.

\$2100. Mr. Witness.—Here long have you led the tyrben of hastericlogical extendistion of milk in force? —Four or fire years.

\$2100. Have you had one obstem in the assuration

\$2100. Have you had any change in the percentage of tolercouless samples that you have discovered in the ordinary milk anyly3—Tee, it has been reduced account in the get iffeen per cent. to stork with, and at the percent time it is eight per cent.

and at the present time it is eight per cent.

22104. As high as that etill?—Xee.

22105. The examination, of opuses, has been by

matter the entermatter, at obtain, as he has been by matteriate by an experimental of the Darker-style—Yea.

32306. When you get a sample of milk proved to be taborealous. I think you talk us that you must it to the farm where the sample eran force, and you agone.

times discovered the number that was at footh 46 every conceitions, on the other hand, you say, there may be several outerals more or less associations in appreciates, that you obsert the milk—That is no. 3210. Would fit not be a possible gian at that stage to apply the tabseroths test for all suspicious arresants on the farm which had produced the behaveour sample of milk; here any official eliminary numbers.

nample of mill; have any olitoni distinatly rempietors tested by theoremia, and the rested get rist of her, instead of leaving the process for a fortisight or three works, while the mill; goes through the University again—I don't think the unbeating the in the contraction of the contract of the conpared for a real wester penalterity and to reste, whereas those that are only slightly affected might could.

Thins. I was assuming you would get did of the real variety straight off, but I invite you to say if there was a doubtful learn—a may be there was supplied not—be used there was supplied not—you would make up you mind without going through the process of attentive, being the multi-rel is not set the process of attentive the property of attentive to a test of the process of attentive the process of attentive to a test of the process of attentive the process of attentive to accordant to the process of a test of the process of t

inherention, better, and yet the one on supply withermose. IEEE, Europe or complicately be lesses, one has less and the less of the less

to new month thirtee, not to componently the little for them; and that is a bigger understring than iso-can conferred plates.

Silhé, Ob., yee; I non nearming that?—It would nearly, in the country, a way life fitting.

Silli, A very big surm of monthly?—A very hig surm of maxing, takings the country all own. I san not perpend yorks to advocate that could core with a suspicious production of a devicent that could core with a suspicious

pared syste to advocate that each cow with a suspicious takes are took a sumple of milk from ought to be idled became the record to tuberouths. 501B. Professor METAM.—Taberouloid gives you will be a summer of the professor of the con-

an attoring, we want the leaves we estimated a 2022 M.S. Women. On an include the shorted Billing 150. Women. On an include the shorted leave about the shortest enter. You manneau leave about the shortest enter. You manneau leaves the shortest and the short of the short property that the shortest enter the short and the characters and, we should be a sound to the characters and, we should be a sound to the short of the short of the short of the short and the short of the short and the short of the short short of the short of the short of the short short of the short short of the short of short of the short of the short of the short of short

And the series of the control of the

communities, in Auging the tropicy mast to stopped.

I we can see amplifying absorbed about the sulfi, we still the summary of the sulfi, we still the summary of the sulfi. Supposing your indeedless the milk form a particulate one, do you know what is deas with that milk by the dailyoung half we fright the milk of a cow with to become, and the properties of the summary of the su

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\$2116. Unless it was storified?—You, undoubtedly, a farmer preservily feels meltined, if you interdict may of his mids from couring it, be say—"ob, it is good example for the page," and the result is you get the enough for the page," and page infected with tuberele. 22117. The Charman The pigs get it?—It is not at all unusual to find pigs affected in that way. We at all unusual to find page effected in same tear-gat page into our markets, may be a single heel, every-ces affected with beings in the dignetive cagens, though the tear of the same booking very well. They had one affected with sensors in the digretive cogens, thought the pige thermselves are looking very well. They had not been very long affected, but probably they had been getting a bug done of tuberculous infraction before

coming its.

33118. Mr. Wilson,—Here you get may correled from which the even go cotable your tree during the summer mustles to grant?—Not mw, we used to, but

SERRICAT STATEMENT OF RESERVE AND A SERVE BY ONE ARE REVER BY ONE ROW.

20119. We have held a good deal of evidence on our as side of the water that this stratem of softbothly halvests the great and when sufficient becomes rether restar.

We do not offend the outline sufficients. We let? 32120. Them is really no overlapping in that res-

32130. Them is seen,
part?—Not at possion.
32121. Six Stuware Wecomman.—What guides you
32121. Six Stuware Wecomman. — It is a report of tuberculous being suspected, or do you take them becomes they have not been knowed at for a long them becomes they have not been knowed at for a long turn's—We spe down to the utilities, or alternative, und take samples indirectingsately of the milk, and at any of these are returned as being influence, we go to the

catcale frome. 32122. It is tuberculosis in the milk that guides west-At record. \$2193. Does the owner get compensation for the destruction of orthe suffering from tubescaleds of the sides alone. If you say, childrelly, as advenced stage of taheroular discase, would that somest he elementary.

and the owner compensated, or is it a question of taborcle in the milk above—Tubercle in the milk, if we respect tubercle is in the milk. We are not supposed to go influentementally.

3224. If your assistants, in visiting a country farm
which supplies you with milk, observe a defective state of buildings or sanitary surrogements, piles of dirt near

Dr. Joux Boxxerios, M.D., B.Sc., examined. 32132. The Chamman.-Dr. Bebartson, you are the Medical Officer of Houlth for the City of Exemingham? 32133. We have hed from Mr. Malcolm the detells of

out on. We have see that from Mr. Mancoun the detest of your administration with regard to the control of the mile supply of your city from the voterineary surroun's point of view, and we should be glad to bave the point of view, and we should be good to beve the aspect of the question from the medical officer of health's point of view as well. He told us that the control was to take summire of the milk as the various maltery bermini and other pieces, and have these sent for smallers to the public analyst of the city. That is so?—Bither to the public analyst or to the Professor

sol—Biliter to the juddle analysis or is the Professor of Instarticelys where Instarticelys was on the Secretary 22254. At the University?—Yes, we take both—a formulal analysis and a baselestable into the between the secretary of the Installation of the sixty.—Of secretary was the secretary of the Installation of the sixty.—Of secretary was the secretary of the Installation of Control of the Installation of the sixty.—Of secretary of the Installation of the Inst \$5156. Similarly situated ?-Yes.

\$5137. Amongst the industrial population are the children well manished?—I think we may take it bere they are well nominaed. they are well acceptable. Bellis And you have no reason to believe that infants and diddlern of tender yoes one fed on improper, and the second of the secon lenited extent, on repursted condensed milk. That is only to a very limited extent though. We do a very press deal in the direction of visiting and instruction mothers on the meshods of feeding. We have had in Birmingham for many years now a large organisation of paid, trained hidly health visitors.

the come, etc., does that come within your purview, or is it the disease of cattle about 1.—The same cases we do sports about it, but we do not at very largely.

2012.3. You have that to the subjectly of the destroy!

—Yes. We have no will purisdiction in connection with —Yes. We have no real particulation in connection with that, and unless we saw manufaling that was limite to cause discusse or the melt we would not set upon it. 22193. In what proportion, recogily speaking, of toleredesse over as a whole, would the order be selected?—If the proposition is generally given about 2 per cour. of infected outlie, and I think that is probably not very far out.

32197. What perporting of earth-would

2015. What peoperties of authorsocial give tuber-culous milk where the sider was not clinically affected. —The proporties of clinically affected prome increa-dills as small unders in var sackingly affected directly assess supportantity some emerited, and even some slightly maintack, similar to give tuberculous indetion in the milk whose udders do not show any smerific signature of the control of the second series and the second series are second series are second series and the second series are second series ar

and selective and the structure of the promises sometimes distributed with a view of credits long tuber. sometimes distracted with a view or compared to the cubais on the form?—We recursored all premises to be thoroughly cleaned and distracted. Wheaver we are testing a herd we stipulate that the dairy shell are testing a herd we supposed user the very mobile theoretical districted.

22(3): Has that here applied is any way to fishin by chesting the nature—No; we have not dess that here. Let one one well conceive in certain innecessary.

here. Yet one on well encoding to certain Indianous that the Salid Sould is deall with A. Hemmobile that the Salid Sould is seen in the A. Hemmobile that the support of the Salid Sould S

braining they get?—here a being competent woman; that is the nerbeing competent woman; that is the nerbeing competent thing. Nearly all of them pomman

— the health and most supported thoug. Nearly as of them passase the estificite of the Sentinery Institute or the health wistor's certificity; but we think it much more important to get the proper thind of woman. 3240. Then the subsequent testing?—More impor-lant than the cubequest testing.

test than the missequest beiting.

2214: In some places they have oppointed people
who have had theiring as genand nearest—Many of
our lawer had theiring as genand nearest—Many of
our lawer had theiring as general neares and as
our lawer had theiring as general neares and
our lawer had their had their had their had their
owners and their had their had their had their
owners a bulk past heart born. We have the little little and
of British And in operation, and we visit shout air.

Of British And in operation, and we visit shout air.

**The state of the state of the little of the state despite. We may mine some that coght to be visited, We know the streets profity wall where our visits are required, and the streets where we third our wides may not be required; but I faint we read them all, or precitally all, soit that has been a district point in potting amongst the torre sporent destroy girl in potting amongst the torre sporent of the proper with and sloyle proper methods of the proper with and sloyle proper methods of

\$3143. Lody Eventor.....These are paid belongs?.... Paid by the municipal subbody.

Silds. What is the usual subsystematic average a ver-ETHER WARE IS too usuan manay—a secure a con-destinate infing—what is the general run of the substrian? —Our salaries are nather too small at the present time, we recognize that. We commanse our ledy health visiters at 50s. a work, and hascense then to 50s. Some get users, but shows are exceptions. The chief superin-

get mere, but show are exceptions. The chief superin-teriority gets after a year.

20144. This like, 'trachore everythings'—We give controlled the state of the state of the state of the state in treating allowances for allowances as well: 20143. The Charman-white this Commission where nost concerned with, Dr. Robertson, is how far the milk exply, or the essently of it, word to responsible for the improper accordance of the botton. In the

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Dr. Jens Rennerson.-- 6th November, 1912.

a sufficient quantity of milk available at all scooms of a sufficient quantity of math available at an account of the year for the mothers insving infants desiring to feed them satisficially if they have money to key 1—Xon. \$2246. And with regard to the quality of the milk, are you satisfied that it is such as it likely to nourish the children property?—Yes. That is a point in regird to which I think there are some wrong origins hald at the present time, and I should like you to know my view on the matter. \$2147. We should be very gird to?—It is thin. I

colds. We should be very glad to 2-3t is this. I shall at once that a certain part of the rulk that goes into every lown in varying poportion is not as gred as one would like it from the point of view of densities, that if the vary strongly that it - and it. best I feel very strongly that the man war and the in is not the great cause of the infast mertality, which is in not the great cause of the infast mertality, which he in it not too great mans or not mean in moreously, waves in often stiribited to its that in the say, that by ortablishing, we will say, sell's depote, or by various similar methods, I his not think that we should gain a yeary large amount by the rates of entities or the entres want a lot less been done there—all for the good, I admit at once, and a thing one would like to see hero— as the direction of certified unit; but I do not think on the direction of certified suffic for I do not think that since in given to how our inflants modulity. In that since in given to how our inflants modulity, in it disk. We notice very certain longitudes took the course of the death, and the type of dwelling in which death takes place around inflants, and we find that means similar than the second of the course of the same the west power in its continuery complete terms among the west power in its continuery descripts of the deaths from, we will saw, normar distribute the deaths from, we will saw, normar distribute that the other held of the pytelesion. Thus in the way, you have put a wown of 80,000. There are not 40,000 with the whole of the Scatin taking place senong that group,

and another 400,000 with a very large manifer of inflant syngtieally no deaths. 33168. A very limited death-rate?-It is peachedly a negligible Sing. Now, I am orthin thre is not very much difference, bare may be a little, but there is not very much difference in the milk supply of the law classes. That is to say, the better half of the population get ordinary communical mile, and the posser clies got colling commercial work. Sense of the better class probably get a better quality of milt I grant say that I want to good myself against any samplelon of bring thought to be swinted with the clearlanus of our milk supply as it is at the present time.
\$\$149. The point you make is this that the immunity from death amongst the better half of your papelation is not accounted for by the superiority of the food on which the children are neurabled?—That is right. severant or measure or medigent habits on the part of methers and mreve, and those in charge of bely children in the infrastrul because?...Willin the infrastrul bounce. \$5151. That is a clear and definite statement.

have no mason to believe or surrelesed that these here no mason to believe or approband that these mothers are form my came unable to procure mile for their circlaves if they have money to buy?—No; I are quite sure that in Sicunia; how me here go a sample supply if they have money to buy it. STIGE. And you have not considered the witnession so scrite that it would be necessary for the public braith anthority to undertake any neberse for the establishment of milk detects to distribute will to the industrial server leden et a'unbezed sele and to saurer its protife to-Time generation keep et alle et al. 1992 et al. 1992 et al. 1992 generation keep et al. 1992 et a

rate allow the health visitors to give any charity what-ever. What we do so this : they are in enabled with

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all the charities, and if they come upon a family requiring anything they give advice as to how best they can go abent getting it, but they do not intensity give it. For instance, we have in Biratingham the Charity Organisation Scenety; we have also get the City Aid Secrety, both and sometice, which give help HARY WAYS. \$2154. I see, yes?-And the besith visitors instruct the prevents how to approach these societies, or other 33155. The CHRISTIAN -Those see precly philan-thropre organizations, and receive no sid from the rates?

32160. Do you believe that the good preperties of mile ter impaired by pastermisation or storilastics?—To s extent they are. 321.07. But not to any araisen satrent-Not to a serieus extent

STIGH. And would you think the climination of danger from healff world compensate for whatever many might he done to the food prepriets of milk!— Well, I should have to qualify my assure to give all correctly. If think it would be unfamiliable to feed a orrectly. I think it would be endearance when collid continuously upon conceiving, crife being one of the things, which is continuedly sterilized. The danger of the danger of the conveying disease by the trange, whose is continued received. The design-bacework, to years, children of conveying fluxase my still it so great that I thank we would undechiedly be wise to sterilise mill; but allow the child to have other things which were not sterilized, possible later on. He child were fed on sterilized tool until four or fire years old I am quite octain damage would reach, but before the cuffd becomes a year old he gots many things that we not sterified, and the damage to tettored.

SSIRO. Have you ever traced an outbreak of indoctions discover to the milk supply?—On, yes, many.

SSIRO. And do you consider the powers at present world in the Public Health Concentive welffileses to

ical with these cours!—Yes, by most instances, deal with these quest—Nex, for most instances. I have always found them angles. We have had more three always found them angles. We have had more dre to the solls, and by taking ingredular stillen, and goods to the connect of the mink, and pointing out exceeds what the dangers were, and what would result and the sold of the section infloridates discuss goes, we approximately a section infloridates discuss goes, we approximately a section infloridates discuss goes, to go the section of the section infloridates discuss goes, to go the section of the section infloridates discuss goes, to go the section of the section infloridates discuss goes, to go the section of the section infloridates and the section districts from which a large properties of your milk and the section of the section of the section of the good of the section of the section of the section of the good of the section of the secti body in our own town, in our own city, becomes ill. body in our own town, in our own city, becomes up, and there is some evidence that the Ulfress is due to the risk supply; it is only then that we have any power to make any investigation. Stay cone, emple cises, do happen, due to the male supply, where we cannot take any ration, because we have not any current stay and ration to the supply to the whome-ton the control of the control of the control of the number of owner oppose, and the property to the whome-case but form and reach describes and out to the

nuty right.

32022. Yes, but is not that nation a slow process
o arrive at a result that would seem to used ungroup. to arrive at a result that would seem to used trygoner. If the medical affect of health of a district in which a farm, ear, twenty suffer from Birmingham, is boosted, known that samelet force or diphtharts is present in the family of the owner of the duky, or any of those compared in baselling the mile, would it not be a more engaged in the energy are must, wrent it has no a more direct and proper method of arresting the supply if he were in a position to communicate with you simight sere in a position to nominateleste with you straight off, and winn you spirit all probability of design?—
Off, and winn you against all probability of design, the calls argist; recall in stopps, the calls argist; recall in stopps, the calls argist; recall in stopps, the substantial straight, which is after some size of the calls argist; and the stopps, the substantial calls are statement; and the call of the c

ov go one to the farm and make mention and put the

two cases about which we are doubtful just now were tenerable to the rull. brocothe to the mails.

(2016). As the present measure, if you get a spoodle case suppling up here and there, and if it does not spend, you may come to the constrained that this is due to come local caree, but if it becomes generalized in a dutieth from which that milk supply is derived from one form or can animal, then, of course, your maintained and the contraction. Which I suggest is in contraction and a the contraction. ampletons are at core around. Mark, of bourse, your marginals are at core around. What I suggest in its colar to lead to a more prompt discovery of danger, and threely leasen the shance of its infecting the area contains that in which it is generated.—Obviously it

would be of great advantage.

22165. Some op-ordination of the work which is oxide. Some co-ordination of the work which is extend out by medical affects of hashle all over the country?—We do get it in a great many cases at the present time, but we do not get it in all. \$2100. Nor is it incombant on the received affect of

32167. Wouldn't you think it desirable it should be made meanbent?-Yes, vary desirable. made incombent?—Xee, way desirable.

\$2199. And would be most helpful to those who,
like you, see engaged in protecting the health of
large content of population?—Xee. I think I ought to
my due the number of onne of times directly investible any data the number of ones of direct directly useful to be made in this city is a relatively until one, sombler to be made in this city is a relatively until one, sombler to be made in the city of in mode hete the talks supply, ast only of the initia-menter, but the petrons who supply the render. One man teay get it from teasy sources. That is easy cought in regard to the gaves majority of uniformises, cought in the supplementary of the control of the impossible, beames they "both" their milk incomplete, in the vent removal to of the render to supple say to get the information, and having get list information it is substitute unifor the ventor's manu-tion of the supplementary of the supplementary to the supplementary to get the information of its substitute uniform the ventor's manu-We have a record for every vender, and we have a

We never a record for every remain, size are never a record for the farmer sending in.

32189. I see, the producer of the milt?—So that if a farmer rends to two workers we have got the care. stoders we have got the cases draw on his list, so well as on the others, and in case of drawns happening on those lists, we should see at once whether there was more than just the coloradence. ones whether show was mose than just the colorollence. 19179. I san not supplishing for a moment that the best effect is not being mose with the mechinery at your disposal for the purpose of checking possible denger, but what I say topically at is the possibility of improving that machinery without increasing very much the cost of administration; only a little hetter so ordination and a recommention of the system under which medical officers of health discharge their deties? There is no question you can improve it very much —Three is no question you can import at very much on the lines you marking.

BUIL Have you had much typhonis leve?—Very BUIL Have you had much typhonis leve?—Very BUILD Have you had not seen a year.

BUILD have you had been been a seen and the seen and

r three years—to tou pears 22175. That is a very p has is a very replif decline indeed; it is ying. Have you over traced to the milk cottonal of typical inver5-Oh, yes, we very gratifying. supply an outbreak of typical invert—Ob, yes, we have had several; nover a large number of once, but there is no doubt about the milk supply having caused filters. When we have done certain takings to the milk supply no most once occur. I think that is our of best methods of terring

32174. Have you over bed recourse to the Widel test? -Yes, we have in many cases. 32176. With regard to people handling willk to secretain whether or not they are tsybbol enriers?—
No, it has not been pressury, recently at any rate.
Of source, we should do it if there was any doubt at

82176. The necessity for it has not arisen?—The eases I refer to see cases where they had been using fool water in vending case, and that foot of thing. We stopped that and the typhoid stopped.

2017: There, again, the administration scenar to be imported, when there is no withoutly, and when there is not sufficient supervision in the outer area to maney that the water used for the cultile and for the channing that the water used for the cultile and for the channing that the water used for the cultile and for the channing the control of foul water in weshing case, and that sort of thing. things we wind be improve in our milk supply more than anything shows a previous for the channing of the narrhing shows a trial greater, and the state of the channing of the control of the channing of the c

stervs. From outer content?...So fay as impure witer in conserned, it may make the eye II, but I do not think you are going to pass the germs the cow drinks through its milk. 20100. The number of trhencolous samples of milk which are discovered in analysis consing into this city seems still privity high, recording to the figures we had from Mr. Milozin, and in recent years, notwith-standing the rightness you have shown in the discharge

the public health doty, there does not soon to be a very secuble distinction in the number of infected samples?—There has been a diminution, I think, but not a lag diminution.

23381. Not cuile as much as one would have hosel?

—No. 83182. Have you my scheme in your mind which would be helpful in recuring the detretion of tuberoulous semples at a super-size the processor of the control of the contro to take very drestic setion, and unless you have get a method that is shouldtely reliable, I think one has get

SIRS. Do you think the application of this receive the best would at least be helpful, at all events, in casuating a purer milk supply?—Ites, shouldedly. There is no quantum about it. It is no a constitute of what. ensuring a purer ratio and a property in no question about it. It is just a question of woa, haring applied year talercolla, you no going to do not people year recolors. The nositer, of covers, is a fearfully one our recolors. with your revolors. The motior, of course, is a fearfully big one, a fearfully expensive thing. I don't know whether Mr. Halcolm gave you the reports we made

here on that subject.

50184. He did. Mr. Halcolm gave us some interesting
figures on that particular question?—Did he give you copies of the report? copies of the report?

BUILE, No. 1, A how thirth he did?—I have brought
some down with one if you care to have them. I think
they give you figure of which we down here. We not
the mother up some years ago very benefy in
the contract of the contract of the contract
the contract of the contract of the contract
give some middle hat would give us at may gate a better
supply than we have gat at the present time.

\$130.00. Do you substant to the health as the hereine
health as similar to disarder to the health as the hereine
health as similar to disarder to the health as the hereine
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\$130.00. The contract of the contract of the contract of the hereine health as

\$130.00. The contract of the contract of

arge experience of dealing with hovines and with human wings one doubt that the recommen and course of

terings on doors teen use procumes and concess on Bluess are nearly identical.

\$2357. Professor Merrum.—At any sute, you have no doubt at all that better bacillar is pathogenic to man?— 32188. The Caurance.-What form of behoved most troublesome in this huge city-pulmonary?-Oh,

yes, polinearay; III and Arch Milel the Chairman 20180. Lody Persando.—I dech Milel the Chairman soled you whether you consider that to Herean a darrent data to Herean a darrent for the Chairman and the September of the Septemb ozzu. we tare and nas evidence that it would be much more conductive to the working of the Covalends and Dairies Order, if it was made compulsory in all places; not "may" do it, hot "mast" do H. Yan may in your district you the Covalends and Dairies Order inci-In your district yes the Cowberds and Diricts Order roles operation, led coulsain your districts its might not he property worked, it might he worked performingly. The polits is take a goint surror of our regard districts are possied by the milk-producers, and, quite property thans districts are represented by the milk-producers as their commits, and I know several fundament where has been been been found in order that there tray not by-laws have been passed in order that they may not be put in operation, not is order that they may be able to say. "On, yet, we shave got hyo-laws, here they see." But they are not yet in operation as all. Those databases are very insided, and govering less every

18392. Do you think it would be more advantageous to have it edinizationed by a central authority by whole-time offsers?—There is no question about it; the milk supply wants to be you under the county, rather than supply warm to be you timed the county, furner than under the local, sutherities.

15238. Would you reggest that these whole-time officers should be appointed by the Bessel of Agricultons or the Local Covernment Rosel?—It think than for the educinistration of the malk the county is the beat Dr. José Romuraco. -- Sti Neurobry, 1912. authority mucif. I think the county is much being

authority myself. I think the sounty is much better than the Local Government Board or the Basel of Agriculture. 23194, Yes mean to have the whole-kine officers appointed by the cannity.—You will find the cornity administration will need tead recoprements better than

absolute interest of the control and represent before the activity and the superment lay, negligible and the

Fig. 20, "Some of the control of the

2010. Who can drains to see in whotever solumn would helt the tembershy of definition-time. The would helt the tembershy of definition-time. The whole the tembershy of the past a grantion as to the contract of the contract of the contract S120. Ledy Novasion—Here you behead the sulffer his longitude of Meringians N-Wir have four longitude are griftly tolenced here mill. As not storled the contract of the contract \$2000. His Medical, "Where a lade promoted bean a force belonging to the heavistic "No, force contractors. The contract records here are forced."

is little designing to the Lorgital La. See, here contained as the contract requires there is everyly as with the contract conord the farmer who has supplied the rule, and are of the farmer who has supplied the rule, and are with permutals to go to that have to test the core, and the contract of the contract of the core, and proposed to the contract of the core of the core, possibly the contract of the core of the core of the longity in the which of dense them that, and the core of the regards and inflational to country outputs. Here are regards and inflational to a country outputs. Here

which was the second of the country. Here we have the country country of the country country of the country country of the cou

exercit. If you get full central by the central mathesity over the swarply concerd form the central control in going is say like every other subsarity. "We are only gring to energy on the work that venezholy determined to the control of the pertunstey measure, without things much places it in the control of the control of the control of the times and exhorting them for their controlleds, and executed in Intil cases a good controlled, and controlled the control of the controlled of the controlle

Name We death that Doe love in Engined you been county under direct, shown by completions of the property specification law melt upon one feet and can species, and how more or box one standard, generally specification property of the property of the property of 1920. As the property thank there has no seal official 1920. As it is proposed to control, in the county, or in a 1920. As it is not to the control, in these or is a white, the control of the control of the county of 1920. The control of the county of surprise in the white the three death of surprise in the white the three death is blanched to be supported to the control of the county of surprise in the white the three death is blanched surprise in the white that the three death is blanched surprise in the white the three death of surprise in the white the three death of surprise in the white three three three three surprises are the white three three surprises are to what shall be the should be surprised as the white three surprises are the surprise surprises the surprise surprises the surprises surprises the surprise surprises the surprise surprises the surprises surprises the surprises surp

surgeon on to what shall be the flandard he himself shall define or region on regoods the constants. Mr. shall define or region on regoods the countries. Mr. you think it would be a vine pressurior that these shall be so different regions of the a country wenture, the country is the countries of the country of the countries of the three countries of the countries of the countries of the property of the whole of the while the three countries of the property of the whole of the braile be shall be got to the local improvement of the brail in which or got to the local improvement of the countries of the SZIII. It would convicte different pure of the Daniel William of the Brain William of the Brain William of the SZIII. It would convicte different pure of the

country—"That we foresholdered in Mr. Borner Mills.

STORIL, In would, a keep rath, saled a general herdSTORIL, It would, a keep rath, saled a general herdresult.

The storing and the storing and the story and all thresholder.

The storing are the story districts in the first part of the story and a s

course—it is generally so.

citani—it is generally so.

action—it is generally so.

have, that the own suffers from socials fever—Oh, no, no just I have got a strong idea that there are certain directs in the own which pediate see throat is directly in the own which pediate see throat is directly. That is another paint altogether?—Rescending

20210. That is eachier paint altogether?—Rescabling scaled force. 20217. You don't know the cause of scarlet frace?— No.

No. 3228-9. You do not believe that come suffer free typhoid or dighthering—No. Professor & Russuss.—And when you get an earlbreak of sealed forms or typhold or dightherin it means, of colors, that the milk has been solded from a learness.

scarce. We have been a substantial first meaning from Mr. Makesha that sheet has been a district from Mr. Makesha that sheet has been a district from Mr. Makesha that sheet has been a district from the manufact of sharpfacts assay you and also received as sample of samples of the breathers assay has proven the manufact of samples of the breathers and the manufact of the manufact

sources and as an own only feath in your death-most consistent to the support of the support of

Dr. Jone Bourgeon, -9th November, 1919

88222. Howe you got a togetar achieve of control to try and weed out these toherculous names to I discoup Mr. Malvolm told you that the Results Committee have affected to supply to swary farmer needing while a effect to supply to your farmer sudding wishin a sace distance of Ritmington reteriors; services on an electron of Ritmington reteriors; services condition that he supplies Ritmingtons with mill. A good ontog farmers have so many at I would like a certain number, not so many at I would not be piled price of that multices a good deal more than the piled of ordinary mills. The consequences is the good don't make you will be a supplied of the piled of ordinary mills. The consequences is the good don't make you will be a better claims more only a side. of ordinary milk. The consequence is the poor son't get that milk at all, only the better class people and our heaptible, so that the unmber of people among the poorer classes who get tabercle free milk is practically

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int. SOLES. Professor Mercus.—It has only been rancing for about four or five years?—Xes. SOLES. And in time you will have a pure stopply coming into Braningham?—Yes. SOLES. The Churchest—Supposing for a seasonal that the purpose is the first four mile to those who can affect to purpose it in fact from the to those who can affect to purpose it in fact from the solection in finiting the solection of the solectio number of cases of phibins amongst their families, would you be in favour of the municipality hearing the cost between the pains of the teberals free milk and ordinary commercial ralls, provided it would be noseible to supply it. In other words, would you couler at the expense of the rates the same advantage which the better-to-do people have derived by remon of their beliefs could people have herived by remore of their beliefs could people have herived by remore of their many sources them may some them are specially seen and scaling see one so is too expensive to stop balacredison, scaling see one so is too expensive to stop balacredison, and therefore a resolution per nature. These the conf-very tools that the remove the first people is an electric to all one people remove. It is much a verterinary affects, the leads from tolerath. I can use a verterinary affect, the leads from tolerath. I can use a verterinary affect, the leads from tolerath. I can use a verterinary affect, the leads from tolerath. I can use a verterinary affect, the leads from tolerath. I can use a verterinary affect, the leads to the leads of the people contains that if varily debuties traps were taken we could relate economically the takendar from amounts

32226. I am putting your own theory into practic You tell me the number of farmers who are small ten may be used or the court of your Poble Health Committee is much more limited than you would like Committee is anoth more knowled than you would like to see it, the consist being that his normber of purchasees who ware writing to pay for the expensively produced the same of the consistence of the con When you got competition the pakes of milk would

we cann reases economicy me teneron from analysis our dairy beeds, sad not at anything The the experies that would be incurred in paying the differences between the toberede iron milk sad the other milk.

333374. The price of milk would althoughly notorn, if the disease said be stamped out, to its normal commer-cial value after the lapse of a few years?—It would be a good meny years. cold value after the sepas of a new James we note our cold many years. Another point is that we draw our mile supply from a knowled scales regard Birmingham, and one form cannot undertake a business like that. Besides, you are going to get a change of farmers 32228 I out quite understand, but there again the

uniformity of the administration comes in. Of course, we cannot carry out the numerous comes in. Or course, we cannot carry out these desired referent without making sten chaintly, and in a neighbouring one tardisionally, and in one still further distant not done at all, the effect of what is expended by the first district is considerably discounted by the imperfusion of the administration in the adjoining districts?-Quite

a not outsimp autorities—date.

\$25220. If you must look at \$6\$ from a uniformly point of view you must have uniformly of administration of view you must have uniformly of administration outside conclusion. As expands topiced, I think the control to the control to colorio. As expands topiced, I think the control white is going mustly to be of much write, which country that is going mustly to be of much write. Securious unless you deal rolls as districts the triplents because unless you deal rolls in meteod by the beride surply assolid be listle to be meteod by the berid must be represented in the control of the co

59230. Professor Murray-Then you cannot suspende that the milk you are paying for in its shape of assistance is going to come into Birmingham at all?—
We only give them the assistance provided they are supplying Birmingham. 82331. But you cannot guarantee that he will not send it somewhere class after a time 1—80. \$23802. Mr. Winson.—Hirry you say desting to seek further powers to go untitle your own sees for imperition? It was impressed upon as in Iroland several times that the attent architecture were armines several times that the ution sufficients were arrives to pet more powers of control crisisals.—If the general control were in proper hands I would be quite scattered, and would not destroe powers to go certifie more than I have got at the present time; but while there is no maximatic existed in these cardid districts, I about the filter power to deep the suffic country into the control of the power to the country time. Sown, because it came from, may, dirty sheds or planes where the water amply was bed. 22231. You wouldn't, it think, want to my their the milk absolid not letter a particular dairy, but you will you were able to may it should not come its your

you were able to say it should admirable tree area?—That is no. againstate or en re-sum as no.
32234. This power you have not get at present?—No.
32236. Has there been any direct result of this
rickeesting little report that was sent in?—Yan, I think
there has been very considerable cents and very good there has been very considerable ments and very good result, and there would have been a higger result best for the fact that we have all been expecting a Milk tor the fact that we have all been expecting a Milk Bill to come slong quite quality, and everybody is holding their hand. Hot I think the farmers in this neighbourhood all new realise that something is going second control of the control of the

\$2296. And yet you say milk is distinctly more expensive as the result?—You. 30207. Looking very far abred, if the disease was enableated ablogather the prices would come down again, but that weeld be a long way shood, and it is doubtful whether they would aver come down come. doubtful whether they would over come gown con-they got up. That brings can to a question we have been up against in several places. Will you give us your optuses as to whether it is more desirable to have your aptition as to warrier it is more desirable to have a comparatively plentiful supply of milk produced, not under libral conditions, but with the week crits out out, or a less supply of more expensive milk?—I have not the slightest lambation in saying that a plentiful supply in the latter of the two. The children want

plenty of milk.

pleaty or mus.

Still Human nature has the power of throwing off
mild infections as long as they are left mild?—Xes.

50009. We have got, of course, aftestions where the totale, we have got, or course, accessors when an milk is shown, or practically absent, and the condition of the children in consequence is more appalling than when milk was plentiful and very bad?—I do not think the question of the aredication of suberculosis amongst the cresion of the sendicosities of toberendon unsings between key fitting to be supported like the difficul-tion of the sendicosities of the sendicosities of the between the sendicosities of the sendicosities of the Lab not thirtie their your resident in Law bose for the last fifteen years comp. I maps amount of work in the submitted at human beings serfering from these about the submitted of the sendicosities of the sendicosities of the form under better conflictions. What you would to do with hereign in the past there exceedings size. This would mean pulling down most of your combeds and making describ covaleds. Make them open-sir covaleds; give the cous plenty of sir. The experience scena to be that a now kept practically in

eigneticos secura te los that a con legis prantically in the special gives about as could railly, en cauchy as the special gives about as could railly, en cauchy as a consideration of the control of the control about this control of the country of the country of the 2020. The Chumutus—bet beyond the region of 2020. The Chumutus—bet beyond the region of and new 1 falls the Convention would predictly be when to make certain large experiments, because it is used in early all the control of the country of the country of the to make certain large experiments, because its conthe cherpest way by a long way.

62241. Professor Mayrant.—Those that no elitically affected might be wiped out to commerce with?—Yes.
\$2242. Sir Symmum Woodgreene.—You spoke of some

\$2242. Sir Senware Woodgeman. And to perchase of the poor of Birmingham being mashle to perchase promit very much; in there a considerable specima of the city much through the word of mains to process small-brea as in any of the formbor is, I think, as small here as in any of the forms in Engined. 552-50. At present tends in very good-a-Trode in particularly good jean over. Of course, with our staff of visitions we are in intimate touch with most of them provided vory much; in there a considerable nortical of Dr. Jone Rossessor .- 4th Neuroper, 1919.

people. The number of people who suffer from lock of mile is not a large one, and I think you will find that in most cases it is not that to during powerty. It is due to manapplication, detain and that nort of thing;

within recent years You have changed the area!-Yes. Of ourree, that makes it difficult to make a statement. I have a proof here which gives you the figures for a number of years, which you may eare to have. (Report hunded

52248. Last year was not a year you would take us a characteristic one?—No, has skill, in further reply to your question, we have in Birmingham a very large amount of washilled labour in our factories, large brees

works, we will say; that is done by practically stratelled were, we wed say; that is gone by promisally dissolled labour. A man may go in without knowing sayfiling of it before-band, and post it up in an hour or two, and go on with it. All that scalified labour is poorly

paid labor.

5007. Bir Sreware Woossacra.—So that there is some proportion of the constrainty hardly able to process still?—Yes, you get that everywhere.

precise mare—an, you get una everyware.

22230. What is the octomary price of milit—B roctes.

In the pocee districts M., 346. In the better districts
they pay 46, 346 and 58, according to the time of your.

22230. When the properties of the milit of the process of the composition of the milit of your foreign on the decomposition of the milit—Yes. 50000 And the ordinary standard galdes you to directing proscoutions, 3 per cont. of butter fact—Xec.

80961 Am there frequent consecutions?-Yes, very frequent. SPANG. Are the fixes adoptate to have a deterrent effect?—Well, I think the fixes now must the case. Probably a few years ago for some cases or other they did not. I think. New I think me get pretty large

Nobably is few years ago for some remote or other did not. I flink. Now I hints few pt purity large profiles. 259 or 25 is quite a frequent panelty; per solitor and the property panelty; per solitor and profiles are solitor and profiles and profiles are solitored and the day or in its mostly raw mith-Mo. or do not have a large amount of our milt partended. We get a complianment odd one milt partended. We get a complianment odd one milt and the solitor of the profiles are solitored and the solitor of the solitor e total amount would not be a very large one.

303555. Heat the milk for what purposes.—The milk they carnot use that delivery. They put it through a thing which they call a parteuriste. Of course, they do

postgomes the milk in these beaters. Then it cooled, and sent out next Schwery, or mixed with other milk and sent out saw secrety, a make was come milk and sent out later on. 52250. The Chungan,—That is not siways harmful?

19255. The CHRISTAN —This is not sleeve harmatic. It is cuttle a good ratible of sleep it. It is better than petiting the new milk with the old milk without than petiting the new milk with the old milk without Callon, let Swarsan Wessenson.—What said have you is being wind of mebasilately officers.—It liften you is being wind of mebasilately officers.—It liften to be milked to milked the mil to do with the 150. I am generally it charge of all the hospitals, for instance; that takes a very large number of men. In my own office I have about 160, more or less, engaged in suchlary work. There are six

doctors and a great many impredura Solition was a great many superson.

27155. In the general suritary work!—Yes.

27150. Is there a separate shall for the Covariant and
Dairest Order!—I durent Mr. Halsolm fold you this
morning. He does entirely the imposition of ovulvels
where the milk is produced. That, of corres, is not a where the must in promoter. That, of course, is too a very hig thing in Blemmgham, because we do not have—at least we did not use to have in older

Birmingham—a large zember of cows in the town to milkshops and places where milk is said, we two men continuously at work going round these. tree mes continuesses; as were going reme; these. Scotto. And as a rela are breas kept as you would like them to be kept?—No; ob, oo. The milladeper the smaller theaters, the mes rebs sell two or three gallons of milk, are very difficult mes to deal with. I think they are a convenience to the public. The breast way are a convenience to the public. The public difference of the public. The public difference was a sense of expensive the importation reconstruction and expensive their stopp.

think if that every was not there she would not me ter foresight and buy when the millionen came round are thousans and may were one have an earner come, or he a regular customer, but would go mithaut the malk probably, so that the possibility in the pomer class areas of the shops deing more good than harm I which

3250. These are little slope in a graceal way?-frish we regulate up to a certain point. We have other, races in the suspe in a general way. Which we regulate top to a certain point. We have done a great deal within the last free or six years to make these little shops provide a cheef. \$2000. The Country.—For milk only?—For milk only, and to prevent them keeping unscolable articles in the same place, and to provent them putting articles on the shell shows where the milk is supplied, so that as politing down the one article they do not drag a lot of dast into the milk.

\$2263. Professor Mirraux.—And you insist on it ising covered?—Yes.

12264. The HIRO. The Chamman.—The smaller the trader the context the difference well, I think there is a distinct prester the consumpressions, whose in having these shope. white in having these samps. A second got milk they otherwise would not got.

Note the ways Womentum.—The milk I believe the children

spinoles are covered in the shape; you require that?— to sak them to. We cannot, for instance, demand We sek them to. We connect, for instance, demand them to be covered; we have no sutharity to demand that. If a man likes to refuse to cover tham, we could exforce it. 82265. In impertion coincide the district, we head from Mr. Mulcolm as to inspection for disease amongst

cattle, that he has powers to go extride. Have you the same powers in case of an orderesk, my, of muriat same powers in case of an orthreak, my, of mariet fover on a farm?—Yes; we have nugetically the same 2227. You can send out a man who has got a regulater's order to examine as to the condition of

things those—Ten.

\$238. Whis do you do afterwards. Supposing you fixed a man of typhoid fever in the family of a man supelying milk, what is your come of procedure?—Well, it would obsely depend on incommission. with, it waste executy depend on incommitmens, 25399. Supposing you shad it eased in onitional, eight or ten enses, of typhold favor to one milk supply, and you had seemband there were some eighting from typhold force on that farm?—Under those conditions, the thing is so senious, that we should take sheeletely legal steps, steps that we are allowed to take by law, to stop the milk supply coming into Birmingham. But what I have always found has been this: when you get out there you find something very obvious is being done to operaminate the milk, and that corrors it follows over to constitute the many was many to taking the purper removed by you make it curroconsery to stop the supply. Supposing a typhed currier had been ruthing a cow, our would see that that man was removed, or get the local doctor or the local existing removed, or get the local doctor or the local existing the subhedity to see that he was removed, every fee is

one, and there would be very little use in stopping the milk. It would not be of any value to stop the mile. In several cases we have not stopped the utility supply, and we have stopped the cell at once.
3020. What do you do with the sanitary application in these districts you go in; do you inform them at 32971. As soon as you satisfy voyredt those is a connection between the typical and the relike. We gramally communicate with them

product way to get to the faces would be to telegraph to the medical offices of health for the district, and to the mankess omness of neatth ter the carmen, and say I had a suspicion, and would be seens with me, and I should expect a tologram hash to say "Yas, I will meet you by a certain train." That is much pricker than gaing to a magistrate and getting an

SCIPS. Then you would leave the case over to the auxiliary authority of the district. But you have power to stop the mile coming in?-If there was any doubs should and we must centing ur—1t there was any doubt about it we should get an order to stop for milk conting. As the whole get as we make to stop the the winds as supported present if weight the Widal test to the supported present if weight the whole the support for was commented to the city through the milk from their form—1 mint you should apply the wilk from their form—1 mint you should apply the While test to survey present consign into consist with the wills, but I can gitle cettain that the Widal test wown find not all typichel certain that the Widal test wown find not all typichel certain. I saw show you on anneilent corrier in Birmingham who gives no

reaction whatever,
32274. Professor Marran,—Still you know he is

infected?—Yos.
Exist. Have the organisms been isolated from him?— 32276. And they are virules:17--Yes. 82277. But he is an exception, of course?-I am not

sure that he is a very great exception. I think the general statement has been that these carriers have all ed typhced. I am not sure they all have. Just as

Dr. Joux Romerson,-Oth November, 1912. a study of preservatives in milk, and took drastic action many years ago, with the result that I think we have surficed less fayer. the addition of presyratives to milk than most of the log terms. Of occase, we get farmer who get preservatives in milk every move and again. It

many people have maver had diphtheria, and are diphtheria earriers, so you get appload carriers that have not had typhoid. owe not find syppose.

62378. Six Errawar Westercara.—The willing of the
Widal test may be congressed?—Yes. I do not think
is would be wise to rely upon it.

22270. The negotive result would not satisfy you in a case where you had grave cause for suspicion 5-No.

22180. Are proper strives used much in Berninghern; are they sllowed?—No, my predocusor, Dr. Hill, main

arren obliged.

Mr. Jose Smory Lasto, F.R.C.V.S., exercised 32283. The Crarman,-Mr. Lloyd, you are the chief outn test?-No.

32388. The Crammax—Mr. Lloud, you are the chief referrings imposed in Sheisheld—Tex, six. 32388. Would you limitly tell the Commission what meragements have been made by the paidin beath eartherly there to supervite and content the nills supply Sheisheld the supply of Sheisheld—The second of the nills report a practically work the medical officer of health, and he have a supervite and western the proportion of the supply of the proposed of the supervision of the su whools has a stall of three veterinery supreme 31184. Of whom you are in charge?-I am in charge

dilibe. or whom you are in castegor—I am in overgo of the sub-figuriesrot. #32364. What proposion of the milk consumed in Sheffield is relied within the multipal acces— Boughly, a third. Sight And the other two-thirts are derived from any within feety or fifty miles of the city ine)15...To a great satisfact that in convert. We have also supplies from on fire as Someosetstice, and as far as Haren

Junction, in the Morth, where the callway accident 50280. That is quite a long distance?-Tes; it comes

from the relik inchoirs.

32387. Mins HcNatus.—Occameries?—Yes.

32388. Performer Murray.—Want time of the year
does that come, Mr. Lloyd?—It comes all the year

does not some, remaind.

Arithm. The Character.—What supervision is exercised arithmeter until consumption of Schillaids.—We have what we still the feed and drugs impacting, who must be sufficient that being still into Shriftid, and take the still that the still still the still still the still still the still s

what we sail the feek and drugs imposters, who most the trainer that being smill time Sirifield, and take anaptive took for deficients and cole for thebreuke anaptive took for deficients and cole for thebreuke anaptive of multi-secretary regions described, which the MERO, Preference Marcus—And request the Art—This and the multi-scale model of the secretary to the cole and the secretary of the secretary that the cole state is to those subject by their interpretation of pagada-tic in the Milliamine to go into the coles said know which will be seen to the collection of the secretary processing and the secretary of the collection of the collection of the second of the secretary of the collection of the second process of the second of the

Since 1991.

\$2550. How far have they proved effective?—Well,
we have got rid of a considerable number of cores with
tobercolous adders. This ristrement (statement handed

hi will give you great assistance with regard to tuber-culors mile. It is a copy of my report complete from the first year up to the year ending 1900. me mrs. year up to tor year chains 1980.

82594. If you would be you'd cresple to queek from
the report shell it would be a speedy mry of quitings
from the property of the property of the report part from
18250. Perhaps it would be the most convenient mry.
18250. Perhaps it would be the most convenient mry.
18250. Perhaps it would be the most convenient mry.
18250. See the propert part of the report part of the report part of the report part of the report part part year part produced before you can
the report part year year in productly. nething we draw up together, gameally.

sideres on.
15206. He good enough to take your own report so at as it deals with the arimals in the first instance? er as it deals with the aremate in one zero measurement rectically, of course, dealing with discass as connected the resis; animal disease. We have the powers of the with milk; naimal disease. We have the powers of the Defrice and Counteds Orders, and regulations which the Shaffeld authority made under the Orders, the tribercalous milk classes similer to those in force in Manchester and other large towns. Then, of course, the medical efficer of health deals with the typhoid, scatter force, diphthesis, that you have been selim Dr. Robertson short, under the Infections Disease. Prevention Act, 1800. 50297. What impection and control do you execute over these daines situated within your own area?—Wa

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Totarinary officer.

surpleious animals does he subject them to the taken

3329). In no instance?-In no instance. 33800. Either is the inver or outer oven have over subjected eases to the tebercolle test? Not since I have been in Sheffield. I have fone so whom I was in \$2301. But Sheffeld has not adopted that method?....

i fliggal now.

30981. Even in ercens#—So, is in legal in creams if he amount is designed. That is by a recent Greier.

The Characas.—Thank you, Dr. Robertson. We are

33902. Professor Marran.—Have you unother method?

—We take enoughts of milk from any come that have abressed odders, and more particularly if we suspect

22303. The Charman .- In the Inspection of the cores sleeps carried out by a qualified votennary surgeon?-Always.

\$2004. And is be asserted in the other heurobes of admiratestics by non-protessical assertants?—Only as requests reportison of any attentions that may be necessary for any derivage or construction of correlation.

seconsary fix any drainage or construction of combots, or alteration of all bridlings to the combots. 2309. Have you touch much fifteenty in having the control of the cont

was to a large extent complied with, and then scheme

the siways bear carries at up-6-date. Sixth, the control of Sixth, Frontane Mresham—So that there was really not much fault to find with the consideratives when the 10th Order come into facet.—No, but we have extended the area twice since them, and the outside area being to the mann applications as those had to company with the same applications as those had to company with the same applications as these \$6300. The Causeman.-With regred to the other

28309. The Chantan.—With Papers to the oran-aces, here you my knowledge that would enable you to say what condition they are in ft—They are in a had condition. For every farm the retarinary improtor and COMPRION. Over every sum has ventralinely sespense, visitle there is a shade of that descriptors baseded to him. (Syredmen there handed in.) It is made as comprehensive as possible, and to give him as little trouble as possible we comply use the words "satisfactory" and "any assistances," was all he does

"satisfactory" and "necessitationizery," used all her flows is to come out from the sides see when she his 2, 2000. The satisfactory is a string to the satisfactory in the satisfactory i the cuties premises are loops with paged to elevatiness

but it is also a check on the inspector to show he makes his visit.

22312. Professor Margam.—Can you put that in?— Unfortunately I sounce. Up to now he has been using some sheets, and these books have now come in from the printers. (Specimen copy has since been forpractically have a returning terpestion of the cows and seawheds and dairy premises every two mooths by a

83333. Professor Marray.—It might be useful for 19514. The Crumeax,—It might be possible to send a copy later on?—I'cs; I think so. The sheets we have 22223. And if he finds in these sow-byres any

My Jone Se OF Lagro.-Oth Mosember, 1912. got do not quite correspond with that, but still they

gat as not quite correspond with late, die son very ser on that name periospic.

2815. This has been drawn up with a wide experience?—Xes.

\$250. Dealing with the circumstances that have

assen and come under electricion after carriel working of the Order?—Yes, that is so, 55317. You think, then, in the outer areas, they are

of them are very bad; others, of course, see 52518. I quite follow. Have you over sought to the corners of precesses sending milk into Sheffald to improve them by making alterations?......Yes, what has improve them by been done is this.

We have reported to the madical officer of braffs that total a form is frank in a very unsatisfactory condition. He then finds out the medical officer of bealth in which the force is attented, and writes to him, and lowes then to occupitals the rest. In some cases much has been done, become I have been often such and by the modical officer to

go and advise the owners or agents as to what we think should be done to make the piece scattery.

32319. In some places a great deal has been done, and in some cases neithing?—Quite so.

am as many cases system; -- give so,
32500. And you have to maints of compelling it?- 25.,
33021. In every district you are unlighed to wide do
you find there is a velocitative officer appointed by the
local subscript, -- No, wot as far as until is concerned.

28522. And to superficient is consisted over the cores often than what you give them?—So. 22525. Am you object to have received over the cores often than what you object to have received to a magistrate is color?—Tes, we never go not without one. 26224. Am your receiption here assumetimes chilly?—26224. Has your receiption here assumetimes chilly?— 20224. Has your reception loves sometimes chilly!—

Ko. There are isolated instance, but the formers, me a rule, welcome inspection. Of corner, you get a custoskerous rase row and again. What they do lick about in getting rid of the corn and having fairs about in getting rid of the corn and having fairs.

denghared enthout reprogramation, straptioned waters componenties.

\$2500. That is the great difficulty?—Xes.

\$2500. And do you think yourself. If the thing is ever to be dealt with on a connected back, that it can be done without giving them sense compensation?—No., I do not think it can be done without giving them compensation?—No. I do not think it can be done without giving them compensation. No scheme of notification if have over

tion secompanying it scot stoccuping and to the sees within the city boundary, have you there ever paid compoundation for seignals so shoughtered?—No, we have paid up compon-RESSE. Are you able to succeed in inducing com-lessures to get rid of suspected solumnis?—In most cases,

yes. We have to some extent the whip hand on them. The tricevelous milk charges of the Art give us power the transmission rate curves or the man give us to summon for fallow to notify. I might say notifica-tion is practicelly a scal latter under these classes. tion is practicelly a feual inter under these choses. They also give un certain powers to problem to milk suggly conting from endeds, or been a dury form instale the city. By proposing one had not letting them creates things would have be deer they grownly tall by I have a cope this reder where the fasquer chought by I have a cope this reder when the fasquer chought because was nothing much the matter with the core. As

same will be a supplied to be in a lakey in the size of the cover between the in a lakey in the cuter area you would have no means of supplied that enter area you would have no means of scenning that her milk would not be sent into Shafirid?—The only possible way of being certain is to get the now staughtered, and in the majority of more we have get

poor shoughteved 22830. Even in the outer area?--Yes, Farmer's Union has been in resistance we have had a

hitle more trouble than previously, but I think the

hithe more two-the than pervisority, but i more ore opportion is doing above.

2020.1. A serie of agricultush leads modaly 2—15 in a large Union, Formed by the farmers to Ringhand three or four years age, to fight the variously question agriculture of the control of the contr

16333. And they employ professional assuriance to redst any proscutions or to defind any member accused of breaker of local regulations?—We have not had a

arge number of prosecutions, only some six or seven during the last eleven years. in second to failure to said in those cases we have had very ridiculous ponsities. The bighest has here a supercise \$2034. Those are by no mean probability?-The

clause itself provides for a full penalty of 42, so that if we get a sovereign we get fitty per ceat. In some many they have only had to pay it. 6d. and the costs, cases they have odly had to pay 5a. 5d. and the costs, we in the same see window as convey of the transet.

22252. It is not a determining the convey of the transet.

22252. It is not a determining the convey of the transet.

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222522. The same will dight you can day "you have done

222522. The same will dight you can day "you have done

2225222. The sa

32588. If he had a bad contract made?—Yes, sir. I dad the advice of an experienced veterinary augrest he whom they have somblered, will, in the majority of

ga wrong they have sentantive, with it we asspony or comes, get you through.

3520s. Do you carry out your unceres cusminations?

—In the majority of rases. Of 251 cases I do not autonous we missed is dones. 82840. Tubrucio lucilli vevo te les found more re-

were a series continued to be a seed find of the well developed in some of the organ of the body?—I have yet to see a new that has get a toberreless often und has not get disease in the measured plants. S241. Do you control the impection of the abetter as well?—Yes.

as well?—You.

20041. And, of course, you have large experience there of seeing post excelered?—Unfortunately we have a

according of reveals alanching bounce. We have 185 in the city. 32343. Professor Marrant.-Three times on many or Dutlin, and we thought it was unusually well vided?-We have 57 m our position, called the Killing

Sharehirs, under the Corporation, and all the rest are scattered shock the torus in the hands of private 52544. The Cummus,—Has any sitompi been mad to compel them to do their strughtering in the public should be the best strughtering in the public should be the second states. The City

Council have had in view the motter of providing Connect have not as were the matter of provincing on abstitute for some years, and at present they are negotiating for a long-site close to two mileston. If that comes to a head three will probably he a good moviem abstituty built and equipped. 2345. Do you ever find clinical symptoms in the edites likely to everite simplicien which do not prove to w interculous offerwards 5—Yen.

he inferences officernous---am.

33341. And in these cases how would you determine
in the absence of the use of the tubersulin test?...Wo
take a sample of milk and send it to the Sheffeld University best-viological department 22307. If the critificate shows t Universal, mea confidente aboute titus uns infectol?—Then we fallow up the cow. 8508. I suppose mirroscopial recognistic or confidente appropriate delinical appropriate the erriflente shows that the milk in

taken as confirmatory of clinical symptoms?—I have easy known one frustance where a failure has been made. This perticular cose was a now with a tuberouter udder This pertivate case was now with a tabercente ublint, statuse in a constant class: to the laboratory at Marchester. Profusion Deligianc's assistant discovered and fast hardly, which in reported were tuberole. Perboare Deligine at that time wasted a senior of tarrices investigation. I seringed to led how here a sample, say, warp other day, wouldy. In the status, tample, say, svary other day, reaghty. But an fetching subsequent samples I found that the cow's adder was nothing better. I reported that to the medical offergetting better. I reported that to the medical of of health, and he reported is to Profesor Deligion. the mountine it had been arranged that the cow should be idled on a control of

the mountine is non-zero arranged that ten our succan be lidled on a certain date, and on ammination it was fruid that the cow was free from the disease. On complete commination the original ample of milk was observed commission the congrant strepts of milit was shee formal to be free of pingesion.

Mr. Winson,—Barrifred to automor.

23244. Problemar Harrifred to automor.

23244. Problemar Harrifred.—It don't know.

24245. You book the milit women??—I hook the

saiden You took the milk yourself!-I took the sample coverif, and I don't know where they aware

feeting. The Communication of the Communication in Communication in Communication of Experimentary of Modeled Semisian Communication Communication (Communication of Communication of Communicati

Mr. Jone Smoor Lagra.-Oth Neverber, 1922,

good towerds reducing the persentage of teleconious settle, we are only following the outbreak of disease to the farm.

28383. You see not screeting it?—Not getting in

2018.5. You see not seresting 11?—Not getting in from.
2019.4. Are you undercomble towards the tolerestin test yourself?—Os, no, not so full had it is sheelessly of no one so far an energy whether the cow has get a inherention radder or set. It simply shows she has got subsensing disease somewhere in her body.
2018.7. The control of the cody.

32353. Isn't it some help?-Ob, yee, it does point thet out. that one.

32556. And does it not also follow there is mash
more dauger of that one developing tobereals; adder-then the new which has not been a reactor?—Ob.,

than the cow waids are never a someour certainty.

SEGOT. And then, in order to secure that information, seemed to the tobercoins test be warmented.—It would be, I think, botter used as a secure of percentage, or trying in get in toberab free. built up by, say, on exergetic feature or stock-23558. Professor Therron.—And protesting himself

from re-infectors.

32500. The Cramerix.—At what print do you reggest
the application of tubercoin should begin?—In establishing a tobercle free head. I should say probably
when the calf was there to six months off; the first

2025. The your first is result to term reconstrilly accomplished in that very, by applying to the execution of the property of

on four-and-twenty to thirty pounds.

32064. Has Sheffeld a market?—I should my for a lerge sown probably the powerst market in England, because we are dependent upon surrounding smaller towns, such as Rotherson, Chesterfield, Pounstone, and

\$2005. Professor Marran.—Those are, comparatively speaking, near to Shofield?—All within towarty miles.

specking, sear to Sharfaidh-All within branchy arises. 88000. And they are no solution but devery week—Tea. 88000. And it is easy for a sewiceiper to gar a oper any day of the wick, becrease three is a margher bell books—The is no.

88000. The same form in the noghbors— 88000. The Courseave.—With regard to the elimina-tention, Nr. Liovid, Acot's you think that as long as it is northed on Bully as at present, efficiently in one piece self not do will morelest, it is Bully to lead to re-defined reservice—Lie is to be both shoth of the analosis.

no definite resettiv—In it the belief both of the medical effort and requisit. \$3500. So long as it is dealt with piece-small that and obtained must be the search—Ites. \$2500. It may particular head of our more subject to thebresions infection, so for an your experience would walke you to say!—It it the question the other way to be a subject to the properties of the properties of the pro-cessing the properties of the properties of the pro-cessing the properties of the pro-cessing the pro-ting the

Shooth. Ask men nouse particular arrest comparaments froe from teherouslosis and I caus assurer.

32371. Here you discovered that cowts—Herefirel cuttle and Weigh. I have on experience of a large herd of Welsh cowe, where there was very Bulle tabercalons disease, on shows by the tobescells test, but in the course of a remider of years over fifty per cent, had

82372. Was that owing to the way in which they

23372. Was their owing to the way in which they were logalt—I was oming to the place in which they were kept.

23372. It is part and parcel of their keeping—Colfe to, yes. This was in a head that originally appoind mile to the Michaelster Force Horpital, Scharled in Sactrockhire, not far from Socke-on-Treat. Marph. Ass the Wellsh breach andires of Walsel—The

Welth hinch cattle.
20275. In the billy districts?—Yes.
20276. Are they to be found all through Water?—The

MSFM, Are very to to print an unrough reason has whelst people themselves sub-divide them into North Wales and Boulk Wales artile. Still they are all black, One let, I don't know whether it is the north or the scoth, has considerably more white to them.

SENTY, Lady RYMARD,—That is mid Wales?—I am a native of Stropshire, a county adjusting Montgomery.

there, and I used to me, when I was in practice there bresdeede of Webb cuttle, Store then I have not and periouse of them. The Chamman—They are regarded us a distinct type?-Ob, yes, they have their own bead book. 63570. And so far in your experience enables you to state, those one the two breeds that are most

manages from tohereds in their system ?-Of our antivo 22000. Professor Marrant.-You would prafty to may nather you find them succe commonly free from tobeselve consuctly, as I possited out, disappears if they get into

infected balldings.

8980; Mr. Witness.—There are some remarkable
figures in this falle. Of equatry cows clinically
examined for tubercelosis the percentage found to be causines for viscorenais the percenting means to no tubercision is 6.0 on the average, whereas in the city cons, examined under presented; situative conditions and similar method, the percentings in only 0.0. Ac-those two steptily comparable? In it for to any than the city come and the country come were countried under the same conditions!—You have to add those two figures together to make the one set opensarable with the other.

\$3586 It is the percentage of the total animals examined that strack me as so remarkable?—The explanation is thus. In examining own in the country we only go to the terms where we have had intherentions. to only go to the farms after we nave an entrales are mixed samples from A large number of samples are return unmass from. A large number of samples are not betweendous; only ten per celut. is, as I say. We cought really to multiply the percentuge by the other figure to compute it with the eliment examination of \$2383. This has consists of the number of count cores clinically examined for tohercolous adders.

following up toberculous related sumples?-Yes. \$2594. And this is the number of city cove elinically executed for teleconloss ubder, which is the same Professor Merran.—No, they remains every one in the city, but in the case of the country they only azaraian whose compation is asposed. Nr. Winner,—That explains is, because the dis-erpancy run on remarkable. It is an extracedinary

3338. The Channalax.—What becomes of the con-dressed unimals, Mr. Lloyd. What is their utilizable file. I mean thans lowed to be effected. Are they slamphered in your abstitute—Out of 200 cases, occording to the latest relaxes, 253 were Milled and 21

33386. Lost sight of?—They were sold by the owners before we could get there, efter we had taken special samples, or cise they were sold in defiance of us after we had tall the owners they were tabseculous. I have som that happen.

62587. Professor Marsam - Tou have no power of following them up 2 - We don't know where they have gone to \$2586. The Chamman.-Do you find that in some

personal districts you get more positively samples of infected milk than you do from other lessification. of infested time cam you on from other communica-cuald not give you say figures for Sheffeld, but when I was in Manchesier we dealt with the teleration milk there in districts very considerably. I found in Manufacture that Cheshire was a markedly tolorectors

defend.

2239. Woold you think that levelying perture would have anothing to do with producing infection of that high-II shifts the earth set feeting is a producing infection of the high set in the feeting and the set in the feeting of the set in the control of the set in the control of the set in the set i

20200. As it was described to us, they are turned into millions mechanical-Tast is so. 15551. And you have no figures that would enable you esself. Any you neve to higgpen must would citable you to determine that work a condition of things tritis in any of the districts from which Shaffald derives its rathk supply?—No. I cannot give you any figure any post that it oil, and I have not drawn any composit that it oil, and I have not drawn any comMr. Jone Sucur Laure,-Oth November, 1912.

\$2200. Has any effort been made by the corporate authorities in Sheffeld to provide milk depots or to exmercible in neamed to provoe milk depois or to matter a supply of milk for the inclusival population 2-No, the coly thing they have in Shaffald that you may call a milk depoi deals with dyied milk for industs. I should like you to you that question to Dr. Sourfield becease be in gravily interested in M.

32868. Is there a dried milk fortery in Sheffeld?-No, we buy the milk. \$6594. Miss McNung.-They use two or three kinds to Sheffald.

22395. The Crancers.-There is a considerable tends in that dried milk. that dried milk. Miss MaNum...—The Corporation itself has savanged for a supply of it to the houses visited by the health

The Carmente.—I suppose it is bardly a fair question to ask you, but why so they cleat to use dried malls rather than fresh pure milk? Miss McKenn...—Boorny. The cost of bottles and denot concuses in the other case are so main's greater !-The Corporation are buying the milk at a press which does not allow the shybespen to compelo with them. They are actually setting the milk at less than the shopkespen can lany it. They began it as a certain price, and the manufacturers continue to supply the

Corporation at that price, which is numer less than it sets the stopkerpers.

22006. They stell do it at a price which practically
overs copenses?—There is a slight profit as a matter

fact. Miss McNessa.—As a matter of fact these are no expenses. \$2307, Professor Marram.—Mr. Lloyd, would you prefer that, in general principle, all impertion should be controlled by a central bound for easile?—In remark to dealing with the milk supply, or in regard to eradicating

disease? The milk supply?—It do not know that any advantage particularly would be gained by the control of the impection by a central board, but I fishe that impection in each district should be compulsery, and probably to get unformety as near as possible it would miss each county council would be the controlling

ny. 1990). Weekle't a central authority be necessary to sure uniformity, breases in its not a fact that the spection in a certain district may be strict, ultervan an adjoining district is may be more or less lax? important of control to the same of the last-ing as adjoining district it may be more or less last-ing as adjoining district in may be more or less last-2000. In order to predict the public, and in order to ensure the milk supply, you think that the cettle should be periodically examined by veterinary inspectors—IN control to the fact the more inspection in carried out by veterinary surgeous the better the results obtained. Bycon in regard is tuber-tically as the same of the control of the co

nester the results commen. Even in regard to mirer-orious udder, we find that the larger number of times oulsus uddir, we find that the larger number of times we impect the corn the more theoretican udders we find. That is taking only the city, but I think it would apply to any part of the outsiry. \$5(6). Is that because you are more skillful?—I have

1900), is that occurs you are many in the first and it is a capetiness and practice which there exist in finding out more cases of teberoulous

utilized—Text.

2005/15, A Guissal construction of the sider is not seen and the side of the side is not not faced in the samples from corn with the samples from t

course. It encouraged him to take temples from every core to thought was not right. 25403. Mass MoNinza.—He took sumples from over which you would have thought it unnecessary to have h you would have thought it unnecessary to have bles from?—Certainly.

STAGE Professor METERN.—So it becomes really a colalised work?—Yes. spondings weal?—Yes.

12407. The Cramean.—It is manipulating, isn't is?

Professor Marray.—This examination is really apendalized work!—Tes, there is no don't shout it.

never comes away without a control sample when he has found one or two amprofous. 20408. Mr. Winser.—A control cample is a mixed SMMs. Mr. without—A counted stoughe in a recess ample from, not accessarily the whole hand, but freen a given group?—We may sub-divide the hard into four groups and take a sample hare each group. ISMMs. Perfector Mintrant—Do you think your week weekls in fall-based if you were able to give seems seetof compensation to those people who had nown with diseased udders?—Yes, I think the welcome they give us now would be strengthened if we were able to give some assemble of compensation. I do not think the

compensation oughs to be a lot. compensation ought to be a lot. SMIG What would you suggest!—Well, the 1904 Granual Powers Act, London, goes up to three-quarters. I think you have a Telecrations Presention Act in related which gives my to 430. I think the surgeon should be carones value.

32411. The Constitute.—Here in Binningbam they go

up to £4. Miss McNgng,-That is the owner retains the The Chargest,-24 componenties and the errors remains the property of the owner.

Polymer Myrenza, di le the full amount of courses. sation they can elve

sation they can give, but the assessit of compensation may be less than £47—II the value of the animal at £5 I suppose they would give £3. Of course, we have no power under the Tuberculous Milk Chauses, and I o powers unony the Tunerchaps sink Counter, and I on't know that they have suy legal power in Straingham to do that. They neight bring it is in a don't know that roundshout ftshker. modebout Barrers.
20412. Mr. Wilson,—I should like to not to you sahence we lave discussed in two or three districts in that empertion, a solution wheerby emperantion would if the farmer or cowheeper untified the be gaven be given if the farmer or cowheeper notified the presciou of suspected ishier tenable; but limbed up with the other half of it, it seems to be necessary, if you give compensation to the men who notifies, you must possible the follow on whose turn a caw is hund in a coupleious condition not notified!—I wrote that down in the train. I quite agree. It would encourage rectification. I have known to system of notification, as I and before, of much good unless it was accom-

partied by compensation.

#2418. You would not compensate unless you had a penal clause to prevent others breeding trouble?a prast clause to prevent others breeding trouble?— Certainly, but thes after comparation and notification you are speaking money and getting no appreciable benefit, compt getting rid of one or two enimals.

benefit, cheepis getting rat of one or two summen. 3444. Best you are relating the sources of infection? —Yes, I grant that. 3445. Those one factions that must necessarily produce beneficial results?—It is the first step towards controlling the disease, no depth. The Shelling controlling the disease, no doubt. The Sheffield Corporation have discossed this matter arraral times with the Butchers' and Cowierepers' Associations, and they larve slergys passed a resolution that they are in invour of compensation, provided in was taken in conjunction with some steps to get rid of the infection, and was paid by the Government rather than out of

the relation Perfection Microsoft. Type gave corresponding to Sheffield you would have all the abbrevious correlationed down them?—There would be a create state of desires becking our for that class of satisfacts of the per tid of them.

20417, That was found in phono-maximum where

that to put all of them.

The put of the put

2324.9. Dealers refined a warranty that the entile top were salling were tuberede free!—They could not be it. We have no formers in the city that war thair own coves.

33430. How long are those coves in the hyrre?—
34620. How long are those coves in the hyrre?—
407 co for filters months, and I have known milk to 507 morem months, and a convenience of the constitution of

or Notificabamables of Darkvahles comm.

Mr. Jony Score Lagra .- Stic Neuralter, 1912.

\$2482. A new as a role does not stay in the hyre say longer than one inclusion period 5—2 should think the majority go out under the year. 10420, And they keep m such condition that when dry they go reto the abetter and kill for boof?-Yes,

\$2424. So that, positionly speaking, it is only a openion of severe, right or size mention, or up to a year, that thay are in the lare?—That is so, 10425. Have you had any serious deficiency in the milk supply of the city to recent years; has there been

the supply of one only in boost years) has more oven ny failing off in the supply conting in N-No. \$2450. Lost your, for instance, was ecceptional, of remer. — Milk dealers put up the price, because they all milk was haid to get. The better dose contours: correct—Milk dealers part up the prins, behane they and milk rem hard to get. The better class encourses I do not three had my transle to gretter it, but possible, 2002. The Contanon.—What the price, Mr. 1500. The Contanon.—What the price, Mr. 1500. The Contanon.—What I may say these sits in fractory milk—up to 44. If may any these portelestly specifies, ever since I have been in Shoffed I may say the contanon.—What is summer or under the containing the containing the same of the containing the large state of the containing the same of the containing the

generally 4d. 32438. Professor Margue,—How long does it take this sails to come from Somerschilde or Hawes Jenotice?—It unives in Sheffeld only in the after-

men, starting undaught or afterwards, or else it opners in the carry moreling, started the perticus mensing, 38420. It must be twenty-four bours old?—Some of

193400. Does it come is very special was, or in a orthogositing van?—My opinion is the trille has all been bested and cooked hadore it storted, become we have taken sample after sample and preer not tabeeds in

RRSH. It has been pasterrised or steelhard in some way?—I have no proof of that, but that is the excelution I have converts. 18482. Yet did not see it to see if it had been looked?

-No, the milk samples do not come into my lands. They are taken by the inspectors, brought into the Tour Hall, and labelled and next to the University. The supplet we take as veterinary improtors we and in the some manner. 38483. I persone you information in the unifor but what there were other lowison in the animal's body?—No; but I have bud in two instances considerable treship in finding indices in

the body. In one case Dr. Robertson and other medical (Borry were with roc, and it took about twenty retreates

\$2454. Although three you discore in the udder?... 32455. But that is an executional case? I have sale

had two. 13430. Sir Surwart Weconstrut.—What do you do with the colves in Sheffold?—There are presidently

The Commission than adjourned until the following day,

note produced there. We have a call market or Terestry, where a considerable member of Derbyshire dealers hirting calves for shoughter, generally those or four days 4 old to as instry works. As a matter of fact, four days: 6st to 4st inner; weren.

so a many series we are four got best to stop them haveging any selves

see are four got best to stop them haveging any selves

se. The Health Committee passed a restriction a

feringist ago that no calves less than a factingly tell

should be brought in fee shaughter. Next week a

Conseiller in going to address the destern on the point. 25497. On the ground that it is pour food?

matter. Perfessor Mirron.—To they go in for vest much in your neighbourhood to Vest pies.

12600. Sir Staw art Westermon.—It has been said. (2008). Six ones are weareness—it are neces some that belief until to presentally as muritious for colors as our mile.5—Does that mean stimmed or makinamed? (2046). The difference of beling only 5—If the mile was bouled I should think it would be absolutely free

2244. Farmers night rear calves face from tuber-orders by hedding the methods milk?—Yes, that is so, 22442. In there my objection example the time and touble that would be irrelend?—I don't have that there as any particular objection. Some people have said in regard to branch beings that they have somey,

but that is a point I am not qualified to speak query.

20440. The Consense, and the control of 22044. Sir Strawart Woosescon-It would lower the mount of toleresslos s up to the leatrition period?-

23445. It would start the celf free in his ?- That is one of the steps that would have to be talous to establish takerde free head.

524th The Chausenest.—If you feed it jule the culf

you get a had shance of getting a sound cow? In my experience as mean immediate I have known your litiers of pigs come to the statter on market, that teacerstants, and my conclusions have been those, that they have been fed with toboundous radio, wither from the eew or lies now. I have found inherentoes in the unifor of the now. It is quite uncommon, but I have found an occasional case. Dr. Hideelin has a very fine specimen of it, because he put it to me in my

continuion.

1944). Thank you, Mr. Liegd, we are much chilged for your attendance.—I am pleased to be of service, and I hape some good may result from your Commis-tion. In Ireland you are certainly in advance of Greet Berkin in regard to dealing with table-readons. The Crivatian.—For third we are well-well, you have

the powers at my rate.

The Canassan,—We have power to pay componention, which you have not get apparently.

FIFTY-SEVENTH DAY .- MONDAY, 1178 NOVEMBER, 1912 The Consumissioners mot in the Quorn's Hotel, Bireringham, at 2 p.m.

Present :- Sir Strwart Woodscours, m.n. fin the Chair: Lady Fardann: Mus Mandanes McNung. ALEC. WILSON, Ess. Mr. J. W. Rommerou-Scott examined.

S. W. STRANGE. Esq., Secretary

22408. Mr. J. W. Robertson-Scott, author of suveral 2006. Mr. J. W. Robertson-Scoth, suther of surreal books on creat subjects above the rests do guerra. "Means Centiled," irricology era short goats, sell ca-"Perlays it and he for the convenience of the side of "Perlays it and he for the convenience of the ca-reduction of the control of the control of the con-relation reguly through the oradinos bring. If I went to take a little selection of the points related how-couring the means of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the con-trol of the con-trol of the control of the con-trol of t

\$2450. In Essex, I think?—Yes, he a small hamlet, and I have been seach streek by the curs of condensed milk in the labourers' cottages, and by the way in which their families are depend of now's milk. As to goots, in rearing through the ovidence, the first point which attracts no attention is that of tethering. point which attracts my attention is thest of bethering, I suppose, in regard to tethere, there must be a done different seets, not one of which can be recommended, as absolutely sale. In my own experience I have found the much convenient plan has been to make a kind of rough paddeds in which to keep the goats precifically sorticed, a place about the size of the resen fabors kin-fect by 30 feets, and to hung a great proper-ter by 30 feets, and to hung a great properthe Currenties on would like?-Well, in the first place, I should like to say " I am a literary man, living in the country. I have been living an a village for eleven or trelve years, and it is in that way I have become infeet by 30 feets, and to brong a great proper-tion of their food to them, and giving them corr-

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terested in grabs.

bring—by allowing them to be led about from time to time. The difficulties used durings brought about by their breaking lone from their tellering are avoided, if the goats one kept in a small paddock as shown here (Mr. Rebertson-Soutt here produced on Blasten-ties in one of her books, and showed it to the Companstoners), and the children at dissections and after school can take then far a run along the cod with and other places where they may do no damage feveral occupies of small heldings, market gardenre. iterated consistent of small balatony, market genérative, and others, have taken a desided objectives to geste, because of the danange they do, and that is the way in which I Clink the difficulty could be met. I don't know whether it is necessary to be, vary exceptants on the impostance of project fooding to keep a gan't in good boulth, because a gat is not what our be called a gar-ing market, but make a between garinast—an instead which always thinks there is a better but furthwhich needs to the higher up, and nothing will no and result; a little higher up, and nothing will no attain its desire to keep moving—and if a goal is kept continually in a small area it gets in bul health very quickly. One of the witnesses has said that the set in accordance with my experience. It is a matter of some importance to get us saired you are gotting wilk from to take a shock as often as possible. When the water is not perfectly clean, or has been trated by some other snimel, my goats have strays refused it, and so dirts votes has an effect on the molt it is as and it early writer has in what in the width it is as will be made in the angle that it is considered by the term of the second of the second

and information.

Special Lady Evenues.—I think that rether impor-Sir Srewer Woosewere,....We should Her that, li lineas. -- Mr. Thunserman could give it yea. I don't know whether it oppos within my neurines, but if the Commission is going to consult any Continental books about great, I should like to nurs these against a French one, which seems to me to contain some extravagent statements as to the providence of vields of milk. yields of rulk.

32445. We prefer to lay stress on the useful books?—It seems a pite that statements should get about as to immense yields from goods which commot be realised to precise as this country. But I should

like to get heak to thee matter of fethering. What happens is this—the tether is not an efficient tether, adhlough it has antive in h; it is not an efficient tetter, although it has antive in h; it is not an efficient inthe, because as the gost drugs the tetter result is picks up little hits of wood, and oversteadly one of the aversus gate blocked and cush round the couler pin, and then up comes the tether, and the be free. goat is from.

32478. In there are, form of tellar which is practi-culty metal in tellaring a goat?—I don't thenk there is any better teller than the relatively sample form. is any better tetter than the removey seems, with a of an ison post short one-and-aball feet deep, with a strivel, and a chain with three serveds in its best should be aball to be that the I have explained, you have always to see that the swivele do not get blocked with a hit of wood or a least

species do int age blenked with a tile overess a series of graze. The long part is the part for alternative Co. It is very release the part is also to this continuing non-state the sorted in blenked, but when the latername part of the word part is selected by the continuing the continuing the series in the part of the continuing the c

stress, as one witness has streety done, as to the value of good milling almins, rather than broads.

25456. he burwary Woodmored.-We have not lad that consideration brought before an yet.-It is in the same way on it has been with poultry. one of the best was possery. Some of its structured in utility porting being fell that is great dual of money has been wasted, and congy minimeted, by the lotterest taken in too units and the course of positry, forgetting that the chird object in keeping o pointy, torgetting that the circu copie in keeping to how in to got eggs. In the same way one feels that when gottlaceping becomes popular there is the possiwhich gottenering interests popular tarte is van power mid the tanks of the coals knotned of to the willby of 18th a goal.

23597. You believe that steam as more the matter
23597. You believe that steam as more the matter
of importunce in the colinary English or Insh goal,
suffice than beed?—What I mean is—take an insetion of the last level is not necessary.

Wheels level is not necessary.

unifor 'tun breed?-Wint I mean is—the an fluc-tuation from pooling.' The book beyon is not successful. I the problem of the problem of the problem of the con-tential to its content of the problem of the con-tential to its content of the content of the con-tential to its content of the content of the con-tential to its content of the content of the con-tential to the content of the content of the con-tential to the content of the content of the con-tential to the content of the content of the con-tential to the content of the content of the con-tential to the content of the content of the con-tential to the content of the content of the con-tential to the content of the content of the con-tential to the content of the content of the con-tential to the content of the con-tential to the content of the con-tenial to the content of the con-tential to the con-tential to the content of the con-tential to the con-tential

know whether the Commission countdes it within its range to make mentries about milk shoot. In Holland I found a good many labourers hard sheep for milk.

32429. We have had that point brought before in
in Isoland by Sir Bishard Barter. He brought that
before us, and recommended a particular ideal of sheep es a uniforderus sufmal?—Short, are lexit all over Holhold by lessoners for milk.

hout by bisomers for milk.

3490. Lady Symmany.—What veriety is nt?—I am
not absolutely sens, but I am told some admirable
milk-shop some from the Listella and Taxal cross.

25041. 87 SEEWART Woomsome.—What bened of 2541. Sr STEWART Woomsons.—What beed of goots have you used?—I have had experience of Augia-Subian, and ordinary English and Irah goots. 32462. You believe thru are different strains in both these qualities of goats which may be improved?—d think it is possible to get a good militing sterio of Anglo-Kubian and a bad unifiting sterio. The difficulty we are really up against in England is that there are not enough goots to go rosed.

28000. What which on milk do you get in twenty-few kounty-distribution of the country of the kounty-distribution of the country of the country and the day "News; and I have had it hast for 28000. What the day "News; and I have had it hast for

soort irre.

32445. Text was from an English goat?—From a Sausen and Augho-Britain cross. I do not profess to save speet a lot of success goats.

32595. Text makes it more valuable to us because it as anticial veilible the each of all. Do you find a much smaller yield from the English goat! I warm to find the projection?—I think it is guite possible to smalls similarly victa from the Reagnian goal; I want to find the properition?—I think it is guite possible to pate up a notaged goals which would probably do see well as no more funcial goal. On the other head, I have English goals not worth lowping, and not given a platomid-a-last of also.

2047. For what do you consider a goat worth keeping?-We all arem agreed that a goat ought to give two quarts a day at the second hishing, and to keep it up for some time 32468. Irrespective of breed?-Yes; a milk-giving

gost. How much a really good gost of good steam is worth I don't know. At present people are asking 45 for a decent gost, and even as much as 450, and that 83419-70. How long would a goot give a yield of ere plats or two querts a day? Miss McNenz, ... Have you kept a record of the many

\$2571. Se Strauger Woodnotten.—How long will an English good yield?—The maintenance of the yield at he second skidling depends wery largely on her the goat is milled and here fed. If the goat is milled thrice, or even twice a day, and every drog is got col-of the utder each time, the yealy would less much longer than if the goat is escalessly malked \$2472. If milked three times instead of two you trouble set more milk?—I think that at times the uniders swellen with milk that from a bemanitaria

spart from the utilitarium, point of view, they should be milited there times a day. If welly these times

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day you would get a little more milk than it sallked ally twice.

a sky you waken go or normal can Angle Nakisan, jot 1841. How knog world can Angle Nakisan, jot instance, monitation this supply—for eight or alice number after liability a necessal time?—It gusboully generated, but you whench got two quarte for a month or two before it drops gradually to two pints or n pint -1. half

or two before it comps government and a half.

2004 A half.

2004 A How long do you expect to get milk to
immunish question?—I have had a gost which I was
never able to dry up. I don't mean there was always
a large visigly, but a cupful, or sometising file. that,
you do be branchistic and infiltration point of wire
the branchistic and infiltration point of wire
the branchistic and infiltration point of wire
the branchistic and infiltration point. From the formanization and softhering point of ver-ter and strainly then good school by drived up, but then the medical then good school by drived up, but then a way mee. It was not third good, and it seen too the 1900-33. I am speaking of verogate—I would not file to blood imported as to time, but we religion to good as the second of the second of the second of the too blood imported as to time, but we religion to good a better problems good time as the graph for good 2000-300 and the second of time and quantities—Year, 2000-300 and the second of time and quantities—Year, and is one of the resion I recommend through posts,

because they loop in nalk longer. opposite there is much difference or MATT. Do you contains those is massis difference or stroutings to be forest in a procedured Trogenshing or single Stitum rather than a cross-bred?—I would nother just say what I would do if I had did to speed on goat. I should have it colled truce or thrise in my perions, and bury it can yield and its physiqua and grared appearance, and should not consider to colour.

gettin appearus por unter it was a pure Anglo-Nation or initiate of the National State of the Initiation of the pital, and set for colour, general appearume, etc. 38479. Do you think if goats are just attention to. yield, 403, 404 for colour, gentral appearance, etc. 28479. De you thruit if goats are pand attention to, taking one year with another, and with foreign blood as there, they should give with more or less for eight names in the year—Xes I have known a past give with three years, livings in tool only one let of balls. 28480. That was exceptional?—I think many points reals give mile for two years if carefully unlived and

fed. 32.981. You schoolt a plan he keeping goats, by having a small auddook so larger than this roces, and a shed—would that be for winter only or for summer a seen—would that he hat water only or fer summer and winter 5—I want to speak a little carefully, because one is sivere made the dread of reconserroding con-ling which, from the branantinian point of view, may not be desirable. When I contrasplate keeping may not be desirable. When I centeraphts keeping gots in a public I contemptate dulliers leading them out several three a day. I have found gots for all goods of the contempts are several three and the contempts of the contempt there is, practically specifing, no food which a gost will

I consect thank of saything edible which gotts the exception of some polarisons that and take. I constact thank of saysteing embod which golds ordnes, with the emorption of some politicescen glorist lated in the gard books. The greater the variety of the food roo give a goat the bester it is fee its health. I have fixed these experience that the heat of all hay for goats is not what is generally organied as the best. I get permission is generally organied, as the best. I get permission trum the farmers and others in my resplication to set the being bottoms, which is greenly words and rough stoff, and I have found that please the guilsevere and with the Newton Chin the left of over No. 2018. It is presented by the Warn Spilling convergence food, and taken the state on restorate food, and taken the state on restorate food, and taken the state on the state of the left of the le better and suit them better than the hest clover hay

which made the record slidd of a measured gallon was which made the record just at a measured games we a gast belonging to that importation. That secum to me already evidence of the importances we amplitude in the yield of point it we could get some new gasts. 32-94. Are they assol used by the finance and willogen secund your place?—I think in the ten or cloves years I have been hving in that handet nearly a doors streety to a greater interest being taken in good keeping. 22480. What chan of people?—Labourers almost

Mr. J. W. Breznrson Scorr .- Lith N

22490. Not farmers?-No; in Every the fermers are in a large way.
20.007. In there a strong projection with a number
of furners against goals?—As long as they are
tobored, and the children walls about with three. It don't think the increes object, but if they are allowed to stray they do serious durings to the hedges. Most

stock owners also believe that a male root is a protoctice agreest abortion 32488. What beends the publick you speak of?-3369. No hedges?-No; hedges are no earthly good should like, if I may while I remember, to say

accreting unore about importation. Your Board of Agriculture is relationt to import fresh goots, and yet this is one of the arguments we me-at the present tion is one or the proposition to more at one present accepted there were to be surer or less a regular amportation of housed asteody, such as antelopes, for treatmen, for our Zoological Gardens, and for the Zoological Gardens which I think you have in Delaud, We say this our need to have a down good studgests is of greater importance to the public than to have more antelopes and such like for Zoological Gardons And, noncover, if there untelopes can be imperted without bringing fost and mostly discher, gaste, under double or guadruple quantition, might be allowed into the centry. The Goal Society is prepared to accept any communicate skind of quantition that the centry.

the Ruglish and foreign side #1490. Ludy Evgreen.—In it your experience freedyn posts and at a different time of the year?—By safing a breign step you could get them to hai at any time of the year?—By setting of the year?—By, with those with foreign blood in them there is more chance of getting table later in the year, shan with the ordinary goat where you get the year, shan with the ordinary goat where you get

the year, skan with the ordinary goal where you get them generally in the spring.

It is not supported by the second of the second of the state of the second of the second of the second of the bill of any time of the year. That is any expectices size, We have bed one in November 1-1 can most interested in bearing that. I have seen board of one interested in the second of the second of the arguments for introducting interior blood, so by that means, instead of only having milk in the spring, you might, by the introduction of society blood, here it all most of the second of the second of the second of the means, instead of only having milk in the spring, you

magist, by the introduction of feedge blood, here it all the two reads. The two reads of the properties of the propertie the great point is to have the days the good unifor if you want to propagate the breed?—Those who have influence to bear might use it with our Boards of Agriculture to see their way to have this sort of small

und exceptional importation.

2004. The trouble is—where one they get enough
gests?—I understand it is quite possible in Suttaceland buy at reasonable prices. think there might be a more moderate figure for a lot; but oven at 45 H might he a profitch investment, became you can sell the progray. Of course, one to play this trial importation would lead to an improve-

ment.
18896. I think the idea in Irchard in to try and get
people to beep a stud form. That is what we hope to
do. I think you will find you have to feed your gosts
in winter said house them!—As they are in peditocles we personal to derive some species of quantitative on the vision of the production of the linguish Board of Agriculture, allowed to the timperials of goals from France, and the goal to be production of the production of goals from France, and the goal to the production of goals from France, and the goal to the production of goals from France, and the goal to the production of goals from France, and the goal to the production of goals from France, and the goal to the production of goals from France, and the goal to the production of goals from France, and the goal to the production of goals from France, and the goal to the production of goals from France, and the goal to the goal to

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Mr. J. W. Rosserson-Score.—Lità Necember, 1911.

paddoek, with find-high bendare out of the wind, and
perfocally day. I think there is a saying in House:

"My little goat odd from wind and wet."

AMSR JI, Wanner, Will's regord to the reason for having the goad developed in these islands, you wrote an essay to draw extension to the multi-lature in randdistricts. Are you allot so say normelling as to the difficulty the blooming must in well-districts have will regard to the supply of multi-late can only say that in each at right-lature, within the place of the city, there no a scoolinearie trapper of bloomers who never have say until copyly at all.

and it slight-line, within his place of the city, there are a considerable, unsured a thickness was now have here as a considerable with the control of the

there is the girls, because it is displayed out.

In the property of the property of the property of the last error good produced and in the property of the first error good produced and indicate the property of the proper

becomes the cutter of meteric arrays of milk, and in the three received, in by 10-1-12 in a. It is not made to the cutter of the

my ordinary supply and have given them seems of it.
\$2204. I we that is set article you moration families

ising quantiles and to have it delivered ground—Than is no arbitrarile being, and wasted need the difficulty. BESST, it would get it it of pediting the persons—The between it not proposed to keep a lattice for although the persons in the person in the person is not provided by the person in the

duity up distincts—colours—and any shortage?

He Wireov.—I don't know the country—to obtain McMana.—In Related is it so the country—to the McMana.—In Related is it so the colour managed to the colour managed to the same to put the colour of manifest leveling owns, and they would use it of the name objection as the large ferroirs—I am speaking of fearours of fee or mis handward areas.

Section of the control of the contro

enough to sould the money at the time? Do goe know which times a made detect by which the Hebridge in Medical for the Medical for the Hebridge in Medical for the Hebridge in the Hebridge in

the militage own in the province." Here is a new that the militage of the province of the prov

the description, to now it florenced outfit to shapphen by the Conversarios with the Day real resolution by the Conversarios with Day real resolution by the Conversarios of the Section of the Conversarios of the telescolor outfit and the Conversarios of the telescolor by the Conversarios of the Conversari

course, streamber that goods' mile will stated the addition of water well exceeded and addition of water will be recoming to the control of t

"MOSSO. It is executed for parallely. Here you as any experience of melaling harder from H-Tae, an argument and the second of th

BASSS. Have you own frunk own 'milk'—No, 1 here taked in.

She Strawart Woosencox.—It is user gold.

In a telesceptate communication to the Secondary of In a telesceptate communication to the Secondary of the telesceptate communication to the Secondary of the telesceptate on the poster of the cooperative but the telesceptate on the poster of the cooperative of the c

ereamery care bought from it. The Dutch Government has given in a year as much as £485 for the encourageof gust breeding, and 490 for the encouragement The money is given to Societies in the different provinces occorned with these matters is the difficurit provinces concerned with these matters, Fr. brattone, it foreingen Gestlerceding Security got all. Some of the Societies apout the mounty in arranging the security of the security of the security of societies and security in the security of societies are security to the security of societies assertions goes in the purchase of good more security of the security of the security of security of the security of the security of security secur good becoding stock from Gowmany, mostly white bancous, on goot shows, good literature, and good m-consure noticeles. The official cattle "consultant" of each measure is often the backbone of the local move meets for goat and milk-shorp improvement. A good milk-shorp in supposed to give 2 litres and apvards. Unknotedly, the practical suggestly of the Coven-

ment with goat and milicularsy breeding has done a goat deal of good. The def Frisine miliculesy month and the state of the first and before the state to the starting Frisine are now being got laptice into a breedowle, which has a small great from the forementar. What has driven on the Frisine is the postense of both mortion, which makes the rean hands of the state of the state of the state of the post of the state of

Mr. J. W. Rousserson-Score--- 11th .

The moved of all this occurs to bo—(1) That the affility of the milk-shop is worth consideration, (2) That three in a warrant for Conventuate their in fer-reteing geat-teeping. (3) That Importations from aboost, feetikele to English and Irale pack-teeping, lay no small part in developing the efficiency of the great steek in Reliand.

Dr. Hapone Scouwman, M.D., cramitard.

are medical officer of health for Sheffeld?-Tea 52221. We have not the advantage of a symposis of the emission we are to gree us, into see will be very glob if you would just metrion to us the points you think would be of use?—I don't know what Mr. Lloyd bold you on Scharday. I down up econe notes with lim-bour constitution. He probabily was desling with the dependent of tubercelosis.

32503 He did, and he said we would here more definite information on certain points from you thus

\$2004 For State Airy Woman

he was prepared to give us.

Mr. Wissuss (potenting to type-written document)—He
deals chiefly with the second half of that. The first
half of that sympols he bardly touched. half of that sempots too hardly too-bod.

Do Straptic—I think the poest I should the to imag out with regard to the tuberceloak question in the or expense in at the both a malabalist. I make it is a cluster redoculate. It is only an attempt to weed out rows that supply Shelfield with milk whole are found to be againfug from televolosis of the nation of alightly carrier period than they would be found in

a tighting center prime to me may the ordinary course, the ordinary course, 20207. We would be glad if you would tell us your weeks opened? —With regard to the city couldeds, seeds a specural?—With regard to the city occasions, we want to copy short occur in two reaching symposes symmetries copy as back cope in two receives. They existing the design carefully, and they take samples from any cores that we issued to lake a sample from the city of the samples from the rest that a special to be healthy. The samplecans wanted and the centred samples are sent to the furnishment of the analyses. We get the result in about or mouth. Inscalation is performed on graves-pigs. If the result is positive then we persond the draw former to have the con slaughtered in personne of our weerting; warness. So far me have been usually approached in getting these coun stanglewed. Sometimes we have

32338. Lody Evenaue,-You have no compression? - Son compression.

33489, Sir Stans are Wecomous—Elver for tuberculosis of the older?—Mrs. Of caure, there is no provision by law for compensation. Then, again, the Shoffeld Health Committee have passed various resolutions on the unifort, beinging the matter before Parkament, and there have been presented as the control of the contro they have alread asked, as her been put in these notes. that the Government take up a complete schome. They bave opposed the idea of compressation unless it is compled with a scheme for the creditation of tuberos-boals, or at any rate for a reduction of its prevalence. Otherwise above is no recogningement for the farmer to

take any trauble in the susteen.

62300. Would be not be wise to have the suircal tracefully examined before he side it to his heat?—That isn't any sound protection, as I think the voterinary surpose still tell you. When I was in Sunderland, and they some pro-surpose will tell you. When I was in Sunderland, before going to Sheffrid, we calcureated to sint a system there, by which the Sunderland Copention gave a cerifficate to any daily farmer who cely kept to the That means give a certificate to any daisy transer who cely large towes that passed the hybrerolla test. That mean that he had to have core unified to the fact that mean that he had to have core unified to the test, and in the first that the state, as a refer to the state of the state of

free beeds were not doing anything towards the conficultion of the dimense. They merely had the convenience, and if they renoted they did not buy thom. They went back to the ventor, and there is a etum difficulty in selling the corn in consequence of

22231. At Storfield have you may take the herits—No. It has never been taken up in Storfield. In Sunderlessel it began with the former who supplied the forey to be the forey to be the forey to be the forey bought there. "I can make the man a neighbourage force and it get him to de this. He gar extra for he mills. I thank he was only grilling about \$40.5 a galless to longer with. There was no sent of delivers he made to be given to the them. There was no sent of delivers he made to be given to the foreign the man and the sent sent that the way to be the sent that the sent the sent that the sent th 32554. At Steffield have reas to cost of different because he was on the other rise to cost of different because he was on the other side of the road. He eventually got 11d, per gallon, Farmers who becapit in this way used to rection that the same cost there on an average 45 more. If it cost them \$33 to buy a cow without the test it would god them \$34 to buy a televely free corr. That was arrived Show a 284 to buy a twhereh free core. That was arrived as in writion were. A man might have no er bee cases as in writion ways. A man might have no er been control to the surroundings before applying the best. If it resulted it word back to the vender. 28383, If two or there come larger to come in logetion if may be changer?—You. If he has but he might get one to pass the test the first three. They used

might get one to pass the test the fast fitte. They used to may the average cost own 8d mass. 20233. It would not be might be used to the price obtained for the multit—They got nothing exist for their milk, but they may have got slightly greater casten. They used to greated about it is a way, that the public did not consider it roots while to pay my more for talcocke fee milk, although advertised or guaranteed that is

was to sector free milk.

\$2528, 8511 a section of the public did appreciate it and support them?—I suppose they did advance their boatness somewhat, and I think they all told me they result not go back to the old system, because they found their cover over you much better.

\$6000. That is very interesting!—That is what they \$6000. That is very interesting!—That is what they tehl me questly.

8088. That applies to Sunderland?—Sunderland. 82286. That applies to Sunderland?—Standerland. have laid no experience of the tuberculin test in

I have lind no experience of use territories of hore featured. You may recent hieldings on of hore featured in direct — I believe they are still pring using with it. There was considerable difficulty in Page 1916, while the test beleeve as considerable difficulty in Page 1916, the test beleeve hand. At one time they used to come down in the treatment with the other cover, and they were only top for mile. goi up for alle. Wherever the tempore, in the district war these particles framers were behilding for a com-tine the particles framers and the state of the the price was run up. I filled my experience there were architecture to show mo, that whose you can do that experience to show mo, that whose you can do that have framers can do it—it is quite impossible for it to become general without the Georemann shirting to become general without the Georemann shirting BOMS. On the ground at express r—No, on the proofs of the franch shirt for reverse. 3159. Such as you mentioned now?...I under-retain if a core has been device once or twice at many not react to subsequent tests. I had the pleasure of meeting Procusor Europ in Demnark, and I was much interested in the subrece be was corrying Dr. Hanne Somerma.—11th November, 1988.
cat there. The Government supply the indercells, and
a condition is that the furness will keep the "reacter?"

a condition is that the formous will keep the "reactives" against from the orders. That was the option. I can be not been that the condition of the condition o

opportunities system i titori. Wash join with it is bushness slingdorten and const this to con which he bushness slingdorten and const this to con which he takenedia totaled compet by a vetarinary surpose, and that any converse control and a size "master." Thus, of course, abreadd he conjected with a compression activation, course, abreadd he conjected with a compression activation. Seems such acknown, I would surgest, aught to be when the control of the control of the compression activation. The control of the control of the control activation is a surpose of the control of the con

2544. But you have power in order damphint?—We haven't. We have power at stop a root relarg aud for railing yearposes, or from bring leys in the same owned with other militing owns, so that pertainly means that the own as of no use commercially, except for its value as most. We got that to the farmer, and engosis was as most. We got that to the farmer, and engosis and to the hetcher are root as possible, and that the verterinary numpers would like to be present.

witerinary sungers would like to be present. \$2500. To see if the coxet is \$0 for human food?—
Yes. \$3544. Then, in the cose of sidercallon whiles, have you say powers of singifier?—No. Of course, if the relationary surgest were to come across as regular surre, a waster, I surpose by would report the feet to the

you say powers of skepther?—No. Of course, if the velocinary surprise over no course serves en regular serve, a vester, I suppose by would support the face to the Sides. In that close you could be you the side could have been served, and if the surprise serve it was obtained, whether one of the surprise serve it was obtained, whether one of the subject of sandratines. Don't unberrolled of the subject of sandratines. Don't unberrolled of the surprise sandratines of any those opposite to be suched; if alon't mean form of the surprise of the subject of the subject of sandratines.

to credule a care that is a waster from the milit supply. I think it is probable that vay much the greater part of the danger is from behreviour olders, and that if may be only acert of next own which posses inhereit beautill in its suffs, without the older being affected. Of course, there must be a heighning of the induction. The veterinary surgeon on spet if after a certain period, but then must be a period of store days before period, but then must be a period of store days before

period, but these must be a period of serior days before the serior of the MoNtut...—Fee the manifestation.!—Yes, when N costs had with a microscope and cannot be fell by pulpath and with a microscope and cannot be fell by pulpath and the pulpath and the

and it is still taken at wedne and committed. With the outside milks we de their the milk geodene devisite the origin and two of their the milk geodene devisite the origin and two pilks in the proof or call is more by the supportion.

The proof of the proof of the proof of the proof of and outside the city—We have an power to import outside the city—We have an power to import outside the city—We have an open to proof outtside so. The gridbarday though a syn has be up at a sample by road or and which hadroidagically contains the proof of the proof of the city of their proof of their proofs or a sample by road or and which hadroidagically contains the interviolates being it did not not be the city of their proofs of their works or

a sample by real ter an interface protect, at you go a sample by real ter as interface in the real tribute in the district, the real term is magnitude; then you have proved, by protein or other from a tribute in the district, in go to that dark from contain the oly and manuface the cove. That is to any, the veterinary surgestion of the real tribute in the real tribute in the real tribute in the real tribute in the real tribute.

goon hom.

3353). The Corporation of Shaffield laws that power?

— Yes.

— Yes.

— Yes.

— Yes a sum of process of the control of the control

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tico have sen the power?—We have the power to stop the milk. We have sometimes need the power when we have had difficulty with a feature who assy, "I read it give any authorization gooderlaking as to what I will do with this cow." I meet the consider farman. The first stage is, you take a road or rell sample. If

It continues tolerate is seedly, when the report entrope in the first point of the continues of the continue

offerer of their districts until you's—They do to entrocatest, set way much. We simply write to them. I write to the county anchool offere, and generally the last they haven't the same interest in solething are set \$800.00. They don't have the milit—They don't have what their arrangements are requiring the their sursum mount give a setable-stay conferencing set out.

surgicial. Writer we are got a ratio georete sizes. It is measting of the Health Committee, and we give him action that we are going to make an other preventing in milk from seasing anti-direction. On the that the, heatest we say this can have been seenly unfill containing inferences besuffit. He has been foul doubt this to keep it in this re that wheel, four wark give my early unfill return to the contract of the contract of the ratio of the contract of the contract of the contract of the graph of the contract of the contract of the contract of the graph of the contract of the contract of the contract of the graph of the contract of the contract of the contract of the graph of the contract of the contract of the contract of the graph of the contract of the contract of the contract of the graph of the contract of the contract of the contract of the graph of the contract of the cont

really satisfactory transportancing, so yet also occurs convex according to smith.

GEISH, Mr. Winner, Herry you had occusion to enforce that Jees, In several, come the onlined has been provided to the satisfaction of the sati

seems to it. In one case assessing, we made as order and to the law of the assessing and the colors and it was on. The harmer run share reduced. He cause to the Committee and table has held and death know whether he made general it or not.

32505, 187 Struwert Woommerse—In once it estone to all the contract of the co

typical Ferra it a form I would creatively communicates with the medical offers of the district, and disk are with the medical offers of the district, and disk are form that it is if everything was about this angle it to be part of the medical offers of being it. The experiment of the medical offers of being it the exceptance of the medical offers of being it. We have server had any transite in where the medical offers of being it was also and the district of the exceptance o

2202. Here you had any orthreads of infections disease to the city that you attributed to coursepons occupied by milk 1—fee, we have had two, I think during nine years, and both of these were inside the city.

2003. The milk was produced inside the city—Produced inside the city—Produced inside the city—Produced inside the city—Produced inside the city. So we have no complete to make in that respect as regards the carries sources. If

to the second of the second of

bad outbroak of santes fever, and that was from a controlla faces, and three was suchier just belove I was appained, a very bad outbreak of typhads. That was appained, a very bad outbreak of typhads. That was follow, in boos of your studies. (Dr. Scott idle here, leading the controllation of the controllation of the maked in a statement.) He proceeded It well know that. That gives the tember of cores outside. You will see more multi coron from outside. If I gas year

ple. If so, I have given a description in a paper that was

Dr. Harons Secresco, -- 1165 November, 1911.

is that pointing most of the children who nafter are oblibileted litting under very bed objectualization, and getting very Bittle milit indeed. If you some results on page 9 of the emissate of militing who by your familities, and they probably here out the constraints whose if an authority of the contract of the probability of the witten is well fed and teget in good condition it has power to resist, but if an inhabit as our down and given forces benefits. each or use a commissioners. Whitesam. I may just rup over some points in this. I meeting there that there is one mouth's delay in the case of a city one and two mouths' delay for an out. vitte beciffi-I give the number of oily town and outside 32577. Mr. Witnest.—A piretelet supply of milk in the existing condition is more important than elevating

the resisting condition is more important than elementary the estimating reliable from developing the sensent overshild I—I should say it is. I should say either maffer more than the sensent sensent sensent sensent sensent sensent sensent applies coally to listants. These were 154 farmless which applies coally to listants. These were 154 farmless which are compared to the sensent sensent sensent sensent sensent including 500 cilibron mafer 12 years of agr. The control of the sensent sensen

without 900 distance make 20 years of age. The object 25 course of 100 library beauth, Authorities to about 25 course of 100 library beauth, Authorities of 100 library beauth, Authorities of 100 library beauth, Authorities of 100 library beauth of 100 library beau They tell me they never had a tuberrelpus udde at Heyes.

3280. Where is Hawest—Hawes is on the booker of Teriodire and Westmoreland. I think the Hawes milk in part on the train numerature about eight o'check in the crossing, and gris to Sheffeld as four or five in the morning.

2028. In must be pasterrised?—It would keep all 2028. In must be pasterrised?—It would beep all 2028. It is may not fly at it it may not expense. The three search produced by the must be search produced by the paster of the paster of the search produced by the paster of the search produced by the paster of the search produced by the paster of the pas

pastcorned milk.

32585. Sir STEWAYT WOODSOUGH.-Is it from went of manney or from ignorance that so many people in Shadfield fail to purchase an adequate supply of militia-

Starffield full to purchase an adequate supply of milita-l think it is partly the intent children after they are a year old revel fields milit. 2009. Do those under a year old get anything like an adequate supply—I don't think force are many bottle-full babbas extently starved for want of milit There may be new getting some of the chapper forms of condensed willing

of condensed utilit.

66895. Lady Evenanza—Do you use utilit powder?—
We use raith powder a let. We sell the milk powder.

We use raith powder a let. We sell the milk powder—
the dried milk. There was a Sanitary Committee
toquiry into infant corolality, and one of the witnesses
anxioloud dried milk. As a sensell it was thought that
the board try in the bot wealther to apply draid milk
to be table-add baller. We have several women impretoried try in the bot wealther to apply draid milk
to be table-add baller. We have several women impre-

5278. Miss MONERLE—Under supervision of year lesiend women impectors?—Yes. That was tried. It don't know whater it did much be prevent disarchus, because only a few subtute were fed on it. What we did find was that it was a suffice easily algorited, and that a lot of infests how taken to it is cone. C2000. Mr. Wintson. What periivaler wrighty?—We C2000. Mr. Wintson. had soweral brands

32500. Miss McNettt.—You may it in various fatty transitions?—Tes, to a certain extent. We had milk from three or four companies. I think every decou-will agree that the difficulty shoot a haly with coffmany

said do. A girl the manager to be over that have been confidenced. I may point out that this, of counts, is no gathe to the amount of toberculous this end confidence occupand with the behovedonic inside. We condumn more city cover in proportion, broase our system of conglination is such more perfect. system or conguination is much more persect. and examination of the outside milk is haphazed, by menus of taking samples of mixed milk as they unlike at the

each of the Constitutioners.)

S2807. You are guided skuply and solely by the discovery of tolereds bacilli observed from the cotable cors?-That is sirie. \$2000. Lady Evenson.—Must your tehereulous bealth

peas through a gainer-pig before you are periodly contain?—You can connections get a direct microscopic result from the milk itself by using a centrifuge, but

result from the milk thall by using a centrifuge, but the tumber of these is comparatively small. \$2000. If it is at all a doubtful case you think it accessary to pass it through a poise-relight-localistics of a partnership is always done. If you have a superior of the properties of a partnership is always done. If may escay you by the succession of the properties of the properties of the interest properties of the properties of the properties of the \$4.00 city table three wars. On the securities to the apacto cary these name error and serve while wear-cident unders term in hour years. On the sementalism that we have not unliked any, see that the proportion of outside even with interculars address in the name, if think what has improved as, we have found 75 out of 200 cears, with underculars address of the outside occa-

I mean if the peoperion of come with therecalous understand the same strong the coincide shalls as the traint there ought to have been 200, and we have only found 75. I would suggest that there is every reason to suppose that there are probably more tuberculous affices saring carticle coun, because the inspection is 32771. Si Swen are Woossowse.—A goodly number well escape detection?—V.v. That shows what a

2271. Sq. Switch're woonners.—a group balant world escape detection?—Eye. That shows what a comparatively small thing our outside imposition is. Lady Eventum.—More probably there is double the 12572. Mos McNutta.—About the milk from them ourse from the orbide, where has it gone to, do you suppose?—It gore down the throats of the Skeffeld effects. Portugue I ropal fout marries this. I think we may take it is goted taxty children commerce over

mile containing televisions bacilli without herm.

2273. Sir Srewarz Woossetter.—I was going to mile
a question bearing on their. We have hed it before us a quantum benering on their. We have had it before us that luberels bacilli was found in milk surplied by ten per cent, of the herds exemined, which seems a win per corn, or the terms exercised, which seems a liego variabler, and from which we may infer that a good deal of the multi contains tuberole lacilli, perhaps in small quantities. I suppose you hadd that many children acquire a lumbel suncout of buberolesses, but that they emigrow it owing to their vitality?-Tra. I think there is no doubt about that. These is no I think there is no doubt about that, fould a large number of children get it. The creating is given the sendentily high by some authorities.

I should think also a number of children in good bealth strollow milk containing tubercle beeffi without it do-ing them say harm. The haplest number of tubercu-

on when any norm. The suppost number of toberco-lous widers we have ever found in the city skills was 42 cot of 2,400. That is a very high percentage, 42 cover with tebercelous udden in one year out of 2,600 stolls; 2,400 stalls might represent 3,600 core. It is a very high scenii 1/400 siabis mighi segrecusi 3/600 corr. It is a revery high prevent see per cut. 3—to might hide the wrench of the 100 to the service of the cut. 3—to might hide the wrench. 31 correct segrecusion of the service per cut. That is over the period of foce years, 30 tubercrains udders access 2,406 siabis 1/400 const to 3,000 coney too, 02 seconswhere about one per cut. —cut. per cut. —cut. 5 correct seconswhere about one per cut. 5 correct seconswhere a correct seconsw over. If these true was a next of the war a measurement of the relik contains to the relike contains to the relike contains to the relike a very large amount of toberoulous milk consumed, that is

quite certain. 6000 oversin. Mr. Witzor, ... About how large a percentage of the samples taken in Sheffield are—the normal transis milk repgly—found to be takenshown. She milk the cotaile? Mr. Lloyd would lell you it is somewhere

the outsider are, accept and another persons about ten per cent. \$2000. Miss McNenz,—He said roughly about ten per cent.?—Boughly. One point I select to on page 9

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cow's milk is that the even is indispositive; but the carbon three with the dried nith was that we found some of the very defined below gat on better with hilf-cream milk, that is milk with the whole of the cool and with ball of the his thore out. As a mile, they get given just as accopited. This year we get in a large supply of 24red why for the distribute ascent, but

Dr. Hanca Scensons.-11th Neurober, 1915.

166

cost rid was one of one and marco costs on a rose, of costs rid was one of costs of the cost of the cost of the costs of costs of the costs of the costs of the costs of costs of the costs of the costs of the costs of costs of the costs of the costs of the costs of costs of the costs of the costs of the costs of costs of the costs of the costs of the costs of co

seed his says they are in secrebic health. They don't seem to be knownford very mosts. It supposes they read to get enough that it is a simple to the second to the second to the second present, it wellow not as the very price as colorument. It is the a fits yet well it at her thrus it is self to the because they are got it has been to be a second to be because they are got it has been to be a second to be because they are got it should be halder to be a second to be a self-to the self-to the second progress marked on a start. The deal suffic is in sufficient to bring on only depend doof for the inhants, when the self-to the second to be a self-to the self-totion of the self-to-the self-tother and the self-tother and when the self-tother are self-tother and the self-tother and when the self-tother are self-tother and the self-tother and when the self-tother are self-tother and the self-tother and when the self-tother are self-tother and the self-tother and when the self-tother are self-tother and the self-tother and the other things. They were shown outded tells in and the

a per on which we have few present of mirror on other fittings. They was shown model desilon, and they can buy pistons at one persy sent of model delates, they pistons at one persy sent of model delates. The pistons with the person of the contract of the delates of the piston of the contract of the 2008. Lafy Nimono.—Do year give any true to the person of the person of the person of the person of the contract of the person of the person of the 1000. The person of the person of the person of the 1000. The person of the person of

BBHS. There is no design on the relate. The respective parties of the property of the property

actived, tally one theiring they always in course programment of the control of the course of the

God to a wigh it dentited the transet places. It is become for the control of the

bring them to the Town Ball, and it is only once a week. 29945, Miss McNama.—They heaven't is go for the dried milk his wore as for bresh milk't.—No. They

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including 200 came every word. We have hed garlends to longers analyte for these showers. If we recommend the same of the same of the same recommendation of the same of the same of the recommendation of the same of the s

get a rapply once a work and constitues used a fort-

topic. The dispensery is open faily?—Three built days a welt. I hope next frameral year they will rashe is dre. We have probably 330 on the books, and probably 300 come over week. We have had \$25.

on controlled to Marko. — Here to their his year schedulers of the controlled to the

to the excellent disc Communicate. My only here is a single girtred on the communication. My only her is a single girtred on the communication of the communication of the communication of the desirable of the desirable of the communication of the communication

and the first of the control of the

A committee was appointed of the Health Committee A commission was apposited of the Health Committee and the Conference Association, and their continuities draw up a paraphles which were the toccurs shallows of both. It is appeal to the Chairman of the Health Committee, and by the President of the Conference for Association. This was instead to repeated for Shorfield the stroked that every dairy feature about and it. I faith this this pool, and it gave the aim st. I think that fid good, and it gave the authorities a health to say to any firener who thought he was being surresonably dealt with, "Your own amonthism pronuments in"

moore-son recomments it.

32601. It is a most excellent schedule. I was cally
configure whether it had got any further than paper?—
. should say it less. There are certain other thans. I should say it has. There are certain other things I should like to see. There is not much smoot wearing 12702. Miss McNura.—There seems to be a great difficulty above annels needing everywhere f.—Yes, and three's a difficulty above the weaking of the pider. There is a need deal of objection to their headed draw.

scidionally. 2003. Hr. Witser,—It still exists?—It still exists. 22224. Lady Evrature.—There is a very interesting part here. I see the death-rate from platfress as receive shart here. I see the deskh-rate from platfras in partly sigh in Shelleld?—Among men. We have the gainders. is way low amongst women.

-Critices and getaken.

20028. Do you think the milk supply has supthing to
do with that 5-I dan't think so. I give my reasons in de with that N-I dan's third so. I give my reasons in this suppe. The figures for infants are given on page 8, said these show there has been a genet distriction. In the letterpress I have dealt write that subject. These certainly has been in suspticed reduction to the list two or three years. It may be that the dimination of come with inherentees whilese has had some effect.

REGOT. Lady Numbers.—That is an extraordinary low

SMITT. Lady interests, waters is an extraording new site for women in correspondent with ment—Yes. I say I think the Shaffeld consistent also unserveds that abdocolnal traberculous is often due to infection from addecidual beheronizate in efters due to infection from a human source, and that the gently increased bushfulnumb seggration of advanced communities during recent years has postably had its effect in reducing the prevalence of this form as well as of all other forms of tubercopolar." I also think it is worthy of note that we have last this reduction in three or from cears. We have certainly been more active since 1907 in eliminating these cover with tuberculous oldiers. It may have ind some effect.

may have had some effect.

\$505.8 I size it consumption in a notifiable discount
in Sheffed 9-Xes, is has been notifiable mines 1994.

\$505.9 If SPERMANN WOODS CONTINUED TO PROPER IN
\$505.9 If yet it so page 12. "There is good resors
to suppose this the climination of infection from the and support of the first few years but had some offest on the permisence of abdominal transcriptors. It is notice that occasis was considered to be joponamoust with what I had easif elsewhere, but I don't think it was. I think it was more not weedcaster who was

38680. Do you happen to know if any other city has adopted the sate of dried raffe. It is very interesting?— Leftowier is so ling dried raffe.

88681, Miss McNwna.-Leisceter changed from dairy control, sains accounts.—Lorenter crimages from ourly milk to dried utilit gradually?—Yea. It was De. Neurman, who was medical officer for Finebury, who suggested we should have dried milk. He said he had pixel dried milk at Finebury, and he thought it gave as pool results as betted milk, but he did not even to be in forcost of orderating it. 32522. Sir SERWART WOODSTONE.-Do you thick it is

Sloty to extend smang the fairly well-to-do closes. I suppose it is among the pace it is mostly used?—I should think it will extend. \$2555. Miss McNunt.-Was Dr. Nowman's fee states, least high man, which is the grain of set in the first the gravity facilities for getting dired mills an composition with the difficulty of gaing and fetching other milk would lead to less breast such trace bottle feeding?—Very likely. Of course, who must have a propagable. We regard breast feeding as most important. You must do all you can be retreated breast potents.

Table, his Structure Woodenscon.—Is the dried mile used for anything except bables; is it used for the purpose of colorating test—It testes switer like being milk, and you see lifts tiny its globules coming to the top. I think moust of the forms go better with test than others. I have not destor the lifts it that the same in the coloration of the contract of the coloration of the colorat

then redinary milk, and he med to take some round with him it a flask in his broughout and drink ? outnot say I should like it as well as crainery milk. SSSS. Miss McNung.-I don't like at all 2-Certainly the proof of the pudding is in the enting of it of as regards the children. \$5556. Lady Everson,-Arising out of your avidence

Dr. HAROLD SCHLERAL-117h

Dr. Scarfield, you would recommend cowlespers to be be scarfield, you would recommend cowlespers to be becaused in the of registered?—You mean so that the Banne could be removed every year?

Binance scould be removed every you? BORT. Yes: on, therefore, you would not great a horsene until their premises were in order, or the corr-valence with their premises were in order, or the corr-sidered to be seasonsylved, think it would be bitter. 20039. We have led so much writeness on the print both in Irland and in England, and in overy ones there has been one consensus of contrast—Lithic if for resolutions in the quest of licensing. We have held north better contrat of the bisquitter-boxes to that way, 07009. Two literas it sugglesteres, do you!—All

TROOP, You Harms shapphrehouse, do you?—All the modern better have stornal forces, so that is sery the modern better all the stornal forces, so that is sery to the stornal forces, and the stornal forces, and the stornal forces of the stornal forces, and you cannot shall with these subsidistications and you cannot shall with these subsidistications and you cannot shall with the force of the stornal forces, and you cannot shall with the force of the stornal forces, and you cannot shall the storn the stornal forces of the stornal forces, and the storn seal—I shall shall the storn seal—I shall shall the storn storn and it is stornal to the state of the storn seal of the state shall shall be shall shall be storned to the state of t

nee coming to meet someto, so may out a symmet so much about it. 88341. It take it you would have all the provisions of the Cowsheds and Dairies Ack make comprisory.—Xes 89348. In some districts we have lad ordence that outset. In some had been very right in its observation of the regulations; perhaps a district estable moderately so, and austine district not at all T—You may have two farms on opposite sides of the road under different

regulations.
18348. If it was compelsory you would say it would be already to have an unspector appointed by a central authority?—You mean the difficulty would be to find a compel to the compelsory. blessity?—You mean the different woman or we lead to be push local authority whose interest it would be to push local authority whose in- to- be was 4de matter. You

noticely—cen main two manifest would not be income.

Income and the control of the load definitions. To the control of the con

500th Sir Strawar Woscoscia — And he seven month—I have know whether this would formed month—I have know whether this would formed by the second with Three features are pretinised stay laber look upon representations irres a moderal effect health as coming from a person who lives in the closely as coming from a person who lives in the closely as to use thought if we could give them a paper by one of themselves—by a time—it scaled here more way one of themselves—by a time—it scaled here more

SDEO. Ledy Evenants.—Have you found it have very much effect?—I think it had good effect. I send copies to neclatects when they are going to peoper a con-shed plan, so that they may see what a progressive Sootch farmer says 33651. You know the hy-products—butter, cheese, skirmed milk—toy not under the same regulations as the sale of new milk: do you consider they ought to be staler supervision, that farmers should not be allowed to make better in an unastralactory condition and the same with stimmed milt or bettermik!-

20052. No, new milk only?-Of course, we deal with chimned milk for adulteration, and dirly skimmed 10003. That is a different thing. We have had evidence of tuberculous health in business several times?

—Tes, there is onthe a lot of theretare on the subsect

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Dr. Hannin Scotterme.-- 11th Moreover, 1925.

of turberds beselfit in butter, but is has generally been hald that the risk was considerably reduced, as the tendancy as for turberds be selfit to go to risk bottom. 18044. Be brittercelft you may have any amount of tuborcellosh—Ver, whoch telly.

Midd-4. In Intercellar, you may have any amount of pipercellors—1, we suited along, you of sensor who has highercolors on his fame that the grossel spaller house possible; silved, nor the vectorum years—2—s. I not very storage of spicios the very to do to buy the property of spicios the very to do to buy products. I do not think the errictors is quite officerests vector global to leave the errictors is quite officerests vector global times are notificially include sector of infection to justify very strong legislation with a feeling with the disease, and grid it reduced to a feeling with the disease, and grid it reduced to the disease with the disease, and grid it reduced to grid its reduced to produce the property of the property of produced to the produced of produced to the produced of produced to produced produced to produced produc

region to the property of the control of the contro

ca to the forms to do it. I think it ought to be done
locally.

500.08. Felling a rural ambority doing its daty, and
you discovered contaminated milk either teherentous or
otherwise layour area, you have power, and occurrently
you have used the theast, to stop the oughty of milk?—
You, rut it has has parved antistopiny.

500.00. Supervise Woodmonton.—Here were many

proceedings for address for A-Oh, yet, a groot meay.

2020. As the fine a determinal-Thom face are very

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pool tanget—some a re quee a good association properties above been code for king first. All Corlaspore Association solo set their fares against preservatives. I make that he see of the things mentioned in that the code of the thing mentioned in the see of the things mentioned in the seed of the things are seen to the seed of the things and the seed of the seed of

[Robbing States or seven in course has considered and probability of the probability of t

The Local Government Board report suggested thus proceedings should be taken if breasic and exceeded a

and detal. "Most Signature Weconstream—It is said in conjunction with a number of other things—We have cultiwavario by get them attended to, and we have cultiwavario by get them attended to, and we have put to share the people. They had a appropriate constrution of the people of the people of the people of most or the people. They had a appropriate who you most with that milk requires to be weathlated. 2006.C. Wenthard ceart—Top 8 tills opting of the top. We know quife well this ill milk to coded and better, and the six people con the six to be not you

BANCO, WORTHAMPS SEASON TO SEASON TO

in the state of th

7 10077. Six Stream Woodcourse...Online and by partition—Yes. Description of the second of the second of the second of We are very much indebted to you for giving use or information we were entained to have on serveral conferents. This point about direct mile was encoedingly of information and very useful. We have no knewledge to information proselled of circled mile.

The Commission then officered.

FIFTY-EIGHTH AND FIFTY-NINTH DAYS.—2978 AND 3078 NOVEMBER, 1912.

The Commission set at No. 5, Upper Casele Yard, Dublin, to consider various subjects in commission with the Draft Report.

SIXTIETH DAY .- FRIDAY, 18TH DECEMBER, 1912.

The Commission met at No. 5, Upper Curtle Yard, Dublin, at 11.20 a.m.

Present: —P. J. O'NERL, Eng. J.P. (Chairman); LADY EVERARD; MES MAROARET MODRILL; Sir STEWART WOODDOUR, M.D.; G. A. MOORRHAD, Eng., P.R.C.R.L.; ALEC. WILSON, Eng.; DERMOD O'BRIES, Eng.

8. W. STRANGE, Esq., Secretary.

Mr. J. L. Ssuru, Principal Clerk, Local Government Board, examined.

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or the contract the harmon will not be seen. The second is a simple of the second in t

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Gill autoministic better the property of the control of the contro

refer to the question of busies which was not strictly referred, but at the same time, it was a question that was very closely connected with the main insee before the Occanisator. I think anyone reading my ordinon, as published by the Commission, would draw a different consistion from it than from the sides winted assumptor execute which sum that a from the sides without assumptor second which may the a milar reviewing.

6000 more seems in these seems and recommendations accounts which gives rise to mice personage, you have constructed a special size of officering when you have showned a special size of pinceedings, because the contract of the seems of the

has a this map, once it is the correspond response to 2000. Km is a map of the correct correspond to 2000. Km is a map of the correct correct control to 2000. Km is a cont

self-ground-red comment, the restrict this control of the control

^aThe statement referred to it printed so calcar in Appendix O, page 191. The Lists of Onthreaks of Extedic Proper attributed to injected sequented still from creameries are printed on pages 170 and 180 at the end of the witness's referen.

agent in a shall had be disputationable from the lefting of the left of the

consistent as that or anythm to note consistently because the object we have in near 1-2 and distinctly in terms of the near 2 and 1-2 and 1-2

and the control of th

30003. But you do think it world be beight be local authorities if such power were conferred, and you don't think it week economic instruction with the legislatest carrying out of the treat, or he lifely to limit the number of these who would be prepared to supply milk for level accomputers—Out the question as to whother is weedd injuriously affect the cupyly, I cannot remote an opious. That is quite a different billing.

The state of the s

savet so maker a system on increasing.

8568. We quite recognise the difficulty with which
you are confineded as the measure, and we shap hope
difficulty. My cicket in posting the question about
linearing to you is, to know, first, if there is any
invited efficulty to regard to it that we might seek to
obtdied by a further recommendation. We smoot look
the developers we now said—"Yes.

\$2665. Lody Eymann.—We have had a good deal of systems from dury contain, and some of them objected the contained of the contained of the contained of me for my opinion as to what the probable contained would be on the volcage of the supply, I cannot give you a decided answer to such a question.

8008. Dr. Mosseman.—Many of thisse way posposely you speak of produces fill, it have a peak as all. I have a great number of them he are district, and the product of the peak and the produce and excepting they give to the core, and they are peaked to be a peak and the peak and the peak and peaked peak and the peak and peak and peak and the metal paying the expenses of the own. In word, it all the peak and peak and peak and peak and peak and a halfproup on the nulk they of they are not unking a halfproup on the nulk they of they are not unking a

Mr. O'Benta-They are not deliming it.
Dr. Hoovena-They sell k. I have get some of
thom to pat down their figures—how much they pay
for feddr, and I down their figures—how make may
maney ant of the produce of that own. They long
that that or mad life into the other how make may
maney ant of the produce of that own. They long
that the town the produce of the own.
They form the produce of the produce of
the committee of the produce of the produce of
the committee—The same argument that is often
ablored in regard to the pig does not apply in these
through the produce of the produce of the produce of
the produce of the pig does not apply in these
through the produce of the pig does not apply in these

actional In regard in the gift does not super asy to see heady. In fight, this impact the to advance of a contract to the contract of the contract of a contract of the contract of a contract of the contract of the contract of the contract of a contract of the contract of contract of the contract of a contract of the contract value of the contract of the contract

man pricella view only make at his decision.—An extension for not pushing the regulations took force.

33667. One must always discrimente shriften aggestion of the histon single post to traject, it can be always to the single post of the sin

bediernill, separated milk, and comm. I dan't think: 1 week as far as to include tutter. 20066. The Canassan-J gropous going into the important cut. It haves butter-mobile in the rate important cut. It haves butter-mobile in the first rater without any supervision, at it not possible deal readrest in many artist includy contentions of milk by and solve constrained the disease to other included as also constrained to disease to other included as allowed a sload by the first of deeper in Emitod, as allowed a sload by the first of deeper in Emitod, as a possible severe of deeper, if those born indicated as possible severe of deeper, if these born indicated as

of Fourier stores, it seemed, in the best better and the companion of the

visited the question from one point of were shown, the objects of from the point point of were, and with conjugate of them the point of were and with the objects of the point of the point

nuces. But it is not at all a Utopian idea?-It has

not have established.

32602. Lady Evmann.-We had a definite statement ton a professional witness on that point.

Dr. Mocoman, If the milk supply is properly infoguarded in every way won't the products of that milk be all right. If you have the main things oil right great not the off-shoots be all right?—That was not the point.
3093. If you are protecting the milk you are pro-testing the products?—You.

32094. The CHARDESS.-There is another ospect of the question and it is thes-that if still is taken into a countery or faor feeter, t is there embiected to some form of pasteurisation. don't suggest for a mouseat that the pustermentou is m of cases effective. In fact, we know it is not dective, but at the same time, some attempt is made is destroy pathogenic germs, but us attempt whetever is reade to eliminate to them from the milk from which a most to elements them from the units from which inter is made at home —I agree with that. It is a question of the degree of danger to the public health, and cor experience is that the distributing creamers, or milk supplied for convergation as such, represents a fing greater element of danger.

82095. That proposition is perfectly incontrovertible? "Yes; and se a consequence, all our attention and time have here devoted to what we considered for the time being the most serious problem, and it seems to Dita being the most review problem, and it seems to me that for some, time to court the attention of local asthetifier will be fully taken up in imaging the con-ditions of the milk supply to a proper standard. I don't wank to disagree with the suggestion that inster-regation better potention, but leading of the mother term a preciousl paste of view, I say that the write term a preciousl paste of view, I say that the write that is used for the purpose of lumnan encouragefor it

the first consideration.

33696. There can be no question of that. The milk street. There can be no question of that. Yes much dealt with in the fartery is the widest means of the servicebing the germs if they coist, but we must not in any recommendation we make seem to bit one particular interest and leave spoiler interest particular interest and leave acollect inferent go scot-her. I shart that there is an enumerous difference between the two, but I should be the Commission to be left open to the change that they bit to be insula-of the inference of the expense of another. How-round to the appailment of reteriors inspector, I should be the position of the com-mission of the appailment of reteriors inspector, have had before as a number of gentlemen appointed. have had before us a number of gentlemen epipolistic as rode, and we have got from those the bears of their appelotecest, and to any rained it is perfectly certain that when the focal before were making them appearances they were either solution by ractivas of economy, or they only desired accordingly to put the dried into openition in order to save themselves from the contract of the contract o being brought into Court, in you were alliged to bring in one or two District Councils, to compel them to enforce the Order. I want to know the view of your

endone the Order. I want to know the ties of your Bounds, as an Antalistative Rev, Party, as regards that appairment of these axes, whether you shall it is a reparable sampling to last you will got an efficient entratastation of the Datest of the whole which the characteristics of the Datest of the whole which the datest of lood considerations and lead influences. In pute agree that whole-time officers would be commonly note effective; the tong as the modified officer of health is a part-time officer you cannot confere the leading to a part-time officer you cannot enforce the suggestion has the velocitary impacture orders the suggestion has the velocitary impacture. should be a whole-time officer.

25007. We hope to make recommendations for the imporement of the existing condution of things—I should like to point out the inconsistency of the Local Government Baard endanyearing to limit on a whole-time veleriousy inspector, but permitting the entiting system of partition smellest effects of health to 52628; Dr. Mconuna, ... You would approve of a whole-time medical officer of health? ... I think there

would be many advantages.

to get a sometimal area to carry its secury.

\$370.9. If you can convince us that it would be a
desirable change to have whole-time middled officers of
health appointed as well as whole-time vicetimacy
imposters. I think the Commission is quite open to
consider the question?—I only referred to the matter
imposters and a similar only of the question as to a wholeimposters and a similar only of the question as to a wholetime of the continue.

veterinary inspector.

12701. We want to avoid any inconsistency on far as essible; and it seems quite resonable, so you suggret, that if your Board should advocate the oppositueest materia to have fitful administration with regard to the medical officers of health withking in the more sten.

I am aware that at us in the minds of poundarul
members of the Local Government Board to advocate in the new future such appointments as these, and I think that with the new appointments that are being created, and about to be created, it would be possible to have such an officer as that unitson imposing my way under atrain on the innates of the country. I have in may usual at the manuscrible feet that the have in may mand at the minners the not then the universitates officers should be be supplieded, and who here here appointed, might also be constituted medical officers of health for the county of it is found that it would be possible for them to discharge the duties, sad if it was consistent with the administration of their other work. This is merely a suggestion on may part, and I want to convey to you that we have no proposition against it, and that we see quite open to consider stay suggestion on the metter of winds-time medical officers?

3200. We have really come to the conclusion—I blick it has been forced on un—that the administration as carried out at the present moment in a vast number districts in little raper then administration in name. Where a veterinary respect has been exponented at a Where a veterinary surgices has been appointed at a salary of 433 a year for the purpose of marking an imposition of the cora is a district in which the delay industry is largely carried on. I think it is perfectly elevates to any man of corresponences that the local unifority appointing used in ordere at that marry only wanted to more thereselves from reproach before the guildis, and to continue nassimally with your admirate-

pictur, and to content non-many with your measure-tracker of the Dairies and Cowdeds Coder.

Dr. Mccoman.—The motival efficies of health have the same sleepy—He is in closing of a disposinery district, and the weteritary impreter has to cover a resul district. I don't with to reggest that the salery

is adoptione.
30700. Dr. Moceanum.—Or that they are in a position of sufficient independence to every out their duties.

duties.

Lady Evizane,—We have had evidence not only in
Ireland, but also in England, that it is essential for
the curying out of the Order to have shedutely inde-pendent medical officers and veteriory suggests— Yes. I think that is the feeling of every one who has

Yes, I think that is she feeling of every one who has suicided public health malkers. SSUMA. In that the view of the Local Government Bound?—I should not care to say it is the off-sist were, but any off-sail who is causiful off-sist with the concentration of the tree that a medical off-see of bealth, who is only puryly deposition on the salary, and has been any on private practice, devicesby cannot be feel-ber, and the salary of th 32705. The CHARMAN,-Quite true. It was foreight-

srought under the notice of the Commission in Belfast, Cork, and Dublin that it would be desirable to make the macking for origin imperior more alequate than it is at the percent moment, and that it about be possible for a public health authority to go into the district from which their milk capply is derived to

delited from which their mrit, empty in sterred to make whether transpection second domain. It may be a supplementation of the state of the state of the very conferred on whole distriction is would be over contrasted on whole distriction in would be commonly helpful to them, in the orderinfecture of our researchable to said there to medicize to king engine of the state of public sources for the purpose of delaing with one of public sources for the purpose of delaing with supply which is a secree of infection to be temple to the state of the state of the state of the secretary density, problems, and to strong, and Delitic was the density, problems, and to strong, and Delitic was the Commission to it is review of Billings in Registery, and Commission held a series of Sittings in Regions,

Commission brid a series of Strings in Regions, and want to Manchaser, where the lower les striped by the public hashlit substity. We had before us extracted the lower for the lower less than the service of this power for stere, years park and I may any that the contribute here, in our more lay the confidence pas before as in years of the manchase we we received the most confident and steres, and who gave a beginning to the service of the contribute of the ball jiked way information, whether it was to they could not discovered the contribute of the condi-tor discovered the contribute of the service of the first power has been much less beight to them than

Mr. J. L. Sacres .- 18th December, 1912.

I was under the surpression that it would be. I make that statement to you to show that I think it is the g of this Commission at the mornest, that if conditions are to be brought about in remail to the production of the milk supply, we need not rely the production of the milk regipty, we need that are on an appear on a fast on growing that would. It can also appear on a fast on growing the would. It can not been fast has been invalid to north East has been invalid to north the growing of the control of the control of the control of the control of the growing of the control of the

held Impairies in every case?—Not only in the case of Berlint. We salted for points from criticines in other cases, but they were not present to give it to us. 32000. In other weeds, the Local Generations Board felt that the allegations made by the local authorities when applying for those Impairies were not sufficient to version's them in guarating them. S. I result not go

#2758. But you did not give the Inquiry !- The position takes up by no was, "If you wast the power position there up by its was, "If you want the porter you must make out your care a prime first care. The Local Government Board will not authorize lebrance into a reighboreing district for the saking."

successful the Board with colourable rase the Insurer woold be held as in Belfust. Layury scoils be held as in Bellast.

6700. In Referr the case was specific, and the

6700. In Referr the case was specific, and the

6700. In Referr the case of the Delbin and Cock

the point was relead.

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6700. The casy thing I upoid self you in the

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6700. The casy thing I upoid self you in the

6700. The case of the Local Convenient Board retrieval

with regard to the efficery of this recers of holping urban consumers to series a better milk supply?-I think from the point of view of the urban authority it would be useful, but the whole doubt that was in the minds of the Local Government Board about the question of the Local Governmont Board arout the quescome was here the granting of these powers to mirro authorities would react on the general administration of the Order over the whole new of supply to the urban authority. In the case of Beldart these were arban authority. In the case of Ecolour unce were up to righteen nural districts concerned. That is a big tract of country. It is possible—I don't say that it would be a recrease; consequence—that by giving

Belinia citable sources to control these ciphicon rural districts, the rural authorities of these districts would are—"What is the use of our draing the work; lot Bellini do it.

3251. I wast to know whether your Bound is of opinion that it would be more convenient and efficacions to have these things efficiently controlled and administrated locally rather than greate a state of theory the things that trould researt outside inspection and lead to irritation accounts to an amprecia the principle of each authority doing its week within its own area has here laid down by Parliament for sanitary supposes, and

isld down by Parliament for mailtany purposes, seed unless there were prove reasons it cought not so be departed from. I think the principle of local control output to be reported as for an speciable. 50712. Lady Evranton—If they do it?—Yest of course, it is midpled to that considers. Both in Belliust and is all these other cases that we have death with new course of less suggested to invest arriborative that if they powers. The real alternative is between giving these powers of octable control as a master of right, or, or the other hand, reserving there be some them. powers of ontains comme as a matter of right, or, on the other hand, reserving them for runes where you know, or where the cridence shows, the roral authority has not made resonable use of the powers conferred

on them, \$2713. In England I asked the question of one usedian office of health if the area from which the nells was drewn alministered the firster would it be I right?—Yes, of course.

52714. But we know in many districts in Iroland
ublic bodies due's even attempt to administre the

putting battles one a even attempt to seminante the Deder; or it other enset they have only made appoint ments?—I have there are sense districts, cortainly, Miss McNutt.—I think we had evidence in some pinces that the local authorities did not sak a

report from their veterinary surgoon at all-that be uplied no report to his Connot.
32715. Lady Evranar.—In the South of Ireland a votermary officer gave us evidence that he reported the existence of intervalues in own to his Council, and when the Chairman saked the Council what they would do in connectors with the report, the Council moriced in " and "?—I can cuite credit that in some cases. If they report tub-replace in court udders it is protocal aith the local suthers whether they go my further The Chusenes.—That is exactly the undestraile compet them to go finities, and unless compelled they will not do so.

32216. Br. Morenzan.—Washi you be in favour of laving all these shares compelsors?—That share should have been the favour of the favour of

of the while should be useds consultently. 32717. Would you not tirmk the harmon being should come before the cow?-I only advocate that particular provision being usade compulsory in the interest of the sman being. 32718. Don't you think that if you had a departme of poblic health, as you have a Department of Agricul-tors, it would strengthen your hands in the siminates-tion of that sort of ming?—Herman life is more vulnable

then the life of a con.

NiThe. The Charren.—Does your Exact ever protest against the uslary that is offered to a veterious protest agricult the many that is obered to a venerously surgion for the purpose of carrying out the provisions of the Oxier2—Los, we have some so. They have offered 43 in some cases. We mised objections in Chieseivect and Efficurer, and we protested againthe weell salmy offered.

she wasil salary offersol.

MITER, Mr. OBENTS—First have no power except to any, "you have made a food of scenedit." You have need a food of scenedit. "You have need a food of scenedit." You have need a food of scenedit." The scenedit scenedit scenedits and the fairly food of the school of the s to obtain ever the genn of the organization,

\$2720. The CHARLESON.-At all excepts, I think the correlation can ordive at no other conclusion from the evidence placed at the disposal, that so long as the appointments are reads fifth, so long as perfessional gentlemen are offered nominal honororiems for the Consells are allowed to exceede their own awart will as regards the efficiency with which this work o as repress to entertacy will when this work or suppresso is certific out, so long will the present uniteables state of things color, and as long will a proble health authority like yours be unable to efficiently county the still supply?—What I tried to point out was that if we attempted to force the pace in the carly stages we should have because ourselves up contest a dead wall of opposition at once.

We against a color wall of opposition at case.

2723. The this mod of the wedge has been inserted and the recessity for the work has been admitted. We can be considered to the color, and I have some to the construction that the color, and I have some to the construction that we are subject inspection is absolutely investigate. What we are subject to know is large with or produced to the color of the color one using by the volume of evidence that has been offered?—The remedies for default are undoubtedly offreed's.—The remoders for default are undoubledly very week. In fact, made Scotico II of the Pulseralasis for that we have been disassing could be regarded as a remody for default, you raight my three is near. In the case of water supply, to assess, the Local Government Boad have power after implify to color the sanifacy authority to easily on which is moved to be their date that the

proved to be their duty, that is, assenting that neglect or deficelt has been established, but there is no correlative petres in segard to the Dairies Order. 32722. Mr. O'Begge,-I don't know if you equalsted with the agricultural side of the Agricultural Organization Society. Have you officially come in contact with it at all?—We do to a certain entent. 23723. They are now working a system they call the "hutter control." That is to acy, they are trying to

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Mr. J. L. Smrn.-18th December, 1913.

get a certain number of cremmeries that will nock up to the very highest standard, and they have very to the very superno summand, and they nave very coreful imposition. One of the provisions is monthly analysis, and hitherto there has been supposed to be a mostility analysis of the water supply. You would a monthly allegate of the water supply. And would have power to go into such a creatury and say, " we went to see the analysis of your water,

Band have to power or control.

30794. You have no legal power at present to go make resourcery proudes except with the good-will of the owners—W course, there exhibit he numeroes, but we have no paper to interfere with them to their se have no paper to interfere with them to their so are to hope to marriare with tarm in their capacity is solid-producing or mill-preparing persons. 18736. The Channes,—Do you ever trine may purefees about the qualifications of vertrinary parpettors S—No, if he is a registered vertrinary

ragion.

12730. That is all you require?—We satisfy conscives that he as on the register.
18727. Can you tell me from manager at the moment eary place in a nursi district in which a reasonable sainty in paid to a veterance improvement made as weekly cariale him to efficiently discharge has duty.

the maximum salary poid as far so you remember?— There is a user, I think, of a calory of £300 in one of the Belfret districts. 20728. But is that as soben district?—No; Bellant 20028. Buf is uns as more district.—ou; series inch. And I think Mr. Masse in Radialova gets look 2200 a poss—between \$156 and \$200. So the Strike Mr. O'Berre.—Do you know what the lady ct. of Galway gets? Is she not a swortly official?—I

dea's know.

20720. Do you think that you could get a wholetime officer for fifteen—I believe the Belinst Inspector
is understand to develop his while time, but that is
as assuragement more or less come to store the Inspire,
18701. The CHILDRAM—I is quite a modern can?—
I in quite recent, but lie, Manue has been receiving
in salary for some time, but he is not a whole-time

officer, I think.

12702. I know he is not a while-time officer. He does a variety of work for the Department of Agriculter to my own knowledge. Would it be your opinion that it would be conducted to the harmonious adminisreton of the Public Health Orders, and the supervision of the rolls, supply, of far milk supply, to have these two hencebes of afgalaistration carried on under some central control?

20233. What I have felt throughout is that the eletions unbatting between public health questions and the male knopply genetion are no close that it would be extremely difficult to have the duties of the efform siministening them divided—the our relating to p samilateing earn arosad—use our reisong so pussed leath alone, the other referring to the health of the fairy stock and the conditions under which they are legs—said I lear that if these were separately ontrolled it would lead to friction in administration and stoled it were used to fraction in administration and healthcitrary theoretys—Well, I may my in one or two littingous we had rather netward questions as to the netwal velations of the medical officer and the

Stierlaney unspector. 22734. As to what is the duty of one and what of the other?-You; we try to susles a rough and ready dis-52726. Is it a matter of difficulty?--There are some

corton. Is it a manner or authorary to there are some boder line cases that are hard to decide. It must be a matter of marked on operation. If the two men are not inclined to on operate it is very deficult. \$5786. If the officers are working under different Bonds would is not render the difficulty greater and the course of friction more numerous?—Undoubtedly, there are possibilities of friction certainly,

\$2737. And in order to ensure efficient administra-fice you do think that it would be desirable that they should be controlled from a common source?—I shin. At present they are controlled controlly and

isselly by the same body. \$2738. That is quite true, but I want you to take into your mind for a moment the fact that we propose is our Report to recommend going beyond the entiating to our Report to recommend going beyond the entiating condition of things, and we think if would be necessary for access body to try and improve the milk yield of the cose. That would be a duty that would not come under your purview as a public health authority?-No.

32700. And that is our of the questions we have harden one can a very sea and restricted a very con-trol of the probability of recording for a common and or other who should be variety for a common and or other who should be variety for a common and or other who should be variety for a common and or administrative bodies, and who may the probably gain a cross propose, and bricken might reise. Don't you will be considered to the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-sequences of the quality of the suit. before our minds at the moment in which there would

well—the question of tuberculous in cattle. well—the question of tuberculous in cettle. That is an administration that remains an ecotrolled by the venerimary branch of the Department of Agrarditure?—

whethers heards of the Department of Agraeditire!— Liquite agree.

18794. 30th, therefore, you see we have the possibilities
of a condities enough lettered the obligation for your learned and their librarily the one asying that the
obligation of the Departments has driven the multisimplices on that district out of the trade, that they
true measurements in the form of the trade, that they
true measurements in the form of the trade, that they
true measurements in the properties on the form. suppliers in time custrate out of the train, time they are unsecurable in their restrictions, and that the restrictions, and that the result is that milk becomes sourcer. If both of these questions were considered by the same enthancy, and counselered consentently—the effect of the administration of one insuch upon the other-due the administra-tion of one insuch upon the other-due; you think under these conditions there would be a more efficient control?—I don't think it is at all immossible to differentiate along reasonable lines between the public health function and the veterinery impoison.
127 #2 You think it is possible?—I don't throk it is

inspensible. 18748. And you don't think may possibility of conflict world arms between the bodies?—Not if the lines of transation were lead down. NUT-64. I see the greatest possible difficulty in drawing a rigid line of demarcation?—Take the one

denoting a rigid line of denormalized.—This the one of a transvelocit sidery cover, in that the point, 1976. That is one of the points, I don't suggest that it is by any second the only point, but I have suggested to you as a possibility of brittless arising that is night be stated that the ottops taken by the Department of Approximent in the absorphisment of according to the control of the companions of the con-Department of Agriculture in the accompanions is sensething that seemed describle to them had had an adverse effect on the milk supply of the district, and the sounty medical officer of nealth might say "then the county medical omnew of health magns say were people are running away on a fid, with the result that they have driven people out of the trade, and no milk is available in the destrict "—Beathing on behalf of the central public health body, I don't think that is a medic that occuping all. If it is the function of the eperiment of Agriculture to do certain thance. I don't three that we should raise any questions because

of the sousaguetes of their settons. 16746. Then there is the question of overlapping in dottes into more as an queries to overnapping an duties?—The peart yet put to me was the consequential effect of one department on the functions of snatter, and if the effect was to curtail the mile supply I don't know that we should be directly concerned in that

20747. It would not be an indictable offence, I admit? ...It would not be in any way an interferent the functions of the Local Government Board. 39768. Lady Evenano. Under Section 4 (5) of the General Order of the Local Government Heard the veterinary surgeon is bound to report to the Department of values in the operate and con segation.

from betweenloss of the under, or neutral united unites, see 5-12 know that clause. It was introduced at the engress wash of the Department. It was put in these because the Department saided to have it magned 82749. The CHARMAN.-On the other hand, I would like to soint out that you at the present time recognise the appointment of velocinary surgeons in distracts for the purpose of carrying out the provisions of the Order, and the control and improvement of the beauth of these arimais as far as possible. The Department these arimais as far as possible. The Department might have in their mind some other scheme for eccomplishing the same result by a different methol, and would it be an economical administration to bars and weeds it be an economical summariance to our set of suspecies, which must be under the emissed of the Lecal Government Board, and another set of improtess sent out by the veterinary branch of the mapsones som our sy use veterinary basean or the Department of Agriculture, to carry out a different testment or a different line of policy aiming at accomplishing the same thing f—It certainly would not, but I take it that in practice that just as we have

Mr. J. L. Sucre. 18th December, 1919. energenications from time to time with the Depart

ment on matters affecting the milk acousty, they would The chapse that Lady Everand spoke about was not in to convenience the veterinary branch, and in an instance of the co-cornation 80730 Tady Exmun.-I den't think that that

duran has been very much observed?—Passible not, but at any rate there it is.

19754. The CRARKEN,—In the Minutes of the local oversity bodies, when revets are received veterinary importors, dealing with specific question-in their own acon in visite recommendations are made that certain things should be done by the load authority, and where no Guler is made by the load toud any removalence se protest against the local solikority enading the recommendations of the voten mars imposter!—That is our ougsing paratire. The directions on the reports are always matched to see

shetter the suggestions are carried out.

32222. How far have you been able to accomplish
your purpose in these remonstrances 5.—If they are set on neglecting the recommendations of the vetreinury ratech weight.

isch weiger. 82768. Do you persist in these carre, and is a farther remoustance sent on?-We follow the matter up to a errado point, but if it comes to a point when they serrado polati, bet il it comos to a poist when they up they won't ob, or made one lettle "read," or a gray they won't ob, or made one lettle "read," or a 1875. Don't yes think it would be well that many the posts to carry in further?—That was the point of the suggestion I made about further than the point of the suggestion I made about further than the point of the suggestion I made about further than the point of the suggestion of made the point of the suggestion of made to the point of the point of the suggestion of the point of

of one it.

SETION. We have had aluminate evidence that the
SETION. We have had it directly
and indirectly. We know where they appoint a main
the cult was at 420 to repertise a large area that they only want the thing done for the purpose of saving these from

the thing does not me purpose at saving mean more locurring public odium and criticism from the Local Government Board, and we keen that that money is absolutely wasted, because the man can do nothing. and if he does make a recommendation they do nothing and if he does more a recommendation they so nothing on his report?—Some form of default powers is needed. 32500. With regard to the application of the Widel test, is the right conferred on your authority to compel suspected persons to stringis thermeters to that test?-

82758. It is entirely permissive?-You. 13730. Have you over known a case in which a medical officer of health was sentious to have this trut applies, and where the individual refrared to subsuit applied, and more the moreotop goes that a case of —I think as for as my memory goes that a case of that kind axon in consection with the Combart out-break. I know that we were very assistant to obtain

bacteriological tests in their particular case. 32760. And you did not succeed?-No. There have been several cases in which we could not get a blood manufe for emmination.

25761. Does not the same rule apply with regard to obtaining smale from the threats, of those unfaving

from diphtheric9-Tes; there is no compulsory names from dightherit?—Test there is no comprising power, 38700. How any representations ever been made by medical man to the Local Government Road that is would be desirable to have him power conferred on them?—I don't think we own had a formal representation. It was delicate matter after all, involving the question of the liberty of the subject, and particularly a case of supplicant.

10760. The liberty of the subject is interfered with

very materially when you have contacts looked up?-Very materials, while you make boseness several synthesis to power to insist on it.

82764. That has been done repeatedly—There is no power to do it in the absence of consent. The medical officer of health could be used for unleavely detective. S2766. If there is no power there englet to be power?

—You cannot companies in sales contacts. There is a limited power under certain circumstances to which I would like to refer here. "Where the local authority

I would like to refer here. "Where the head authority in pursuance of the aforesaid powers have provided a temperary shelter or house accumulation, they may, on the appearance of any infections disease in a house. and on the certificate of the medical officer, cause any person who is not himself sick, and who consents to leave the boose, or whose parent or grandian (whose the person is a child) consents to his leaving the bouse, to be removed direction to any such temporary shelter or brane accommodations, and fix the like case on the the certificate may muse any such person who does pot contribute that the latter to be remared therefrom to any such temporary sectors on none scenariosausco, where tro justices, on the application of the local authority, and on bring satisfied of the necessity of the respond, make in order for the consend, subject on each condition of once and condition of once and conditions of once and conditions of

22706. See Strewart Woodstoner.—Have you say intreive with his liberty. He is not a person authoring

Mr. O'Burns.-There was also a case in America. Mr. Moonman.—In these any authority to prevent a dairy on which suspected there are subscript to prevent a dairy on which suspected them supplying milk?—These is a newsper of the Infectious Disseases Prevention Art of 1890 which empowers a medical officer of health, where he has recomed; for helivius that indecious disease d by milk from a certain darry, to go and inspect H the dairy is in an outside district, he has to get a magistrate's certificate. He then examines the get a magistrator overticeate. He then enanames one starry and he can commine the cose of the has a veteri-nary surgeon with him. The point-that I would his to letting before, the Commission arises here: "if, on such imposition, the medical officer of health is of opinion that infectious disease is caused from egesyste.

tion of milk supplied thereform, he is required to make a report.

It is the letel authority that has to issue the Color for closing the dairy?—Yes. In precise, the trouble has arisen from the phrase "on such imper-The local putherities have been advised that these are limiting woods—that the ovidence on which the medical officer's report is given must be derived from facts obtained on the occasion of his imposition. Therefore, if there impreced to be a typical sarrier, you cannot escribin that fact on the imposition, and the result is that you have get up logal power to done the dairs up, although you may have every moral con-viction that the milk is contaminated.

3789 Mr. O'BRON. "Prosticelly, that makes the Art a dead letter?"—It is very bird to get over these words "on such suspection." Tmy have limited the

offect very much.

2070. Was these nester that was therefore out
when the Ach was being passed—I don't suppose
they were foresers the consequences.

2071. It is a point that saight be emerated?—I think

2071. It is a point that

I think those works should be centited, or made to read. " after much respection SETTL The CHARMAN.—Has any application over been made to the Level Coverancest Board by the heet must to the access conversations point by lead authority for permission to solubide a utility apply, or to inour any expenditure of mass for the purpose of baryoung or increasing the mall; supply to the poor in the district over which they pesside.— I den't know whether there was a serious application. I don't know whether there was a serious application. There was a case of two District Consolis in Clarr-cus of which proposed to supply an aces for the lithource to feed his cost on, and the other proposed

thicker to from the continues of the state of the control of the inhomers with a con52715. That is not conselly the idea I have in my
mind. We did bears that in Liverpool at the precent time a achiero is in existence whereby charges are made on the local rates for the prepose of cherporing the milk supply to the poor. Is it recognised that in the miss support to the poor. Its servergement was in Ireland a head authority has power to carry out such a salaring—No. At the time of the Tuberculosis Bill it was discussed whether what was known as the of Van Gleifsson runner wrate Web harwer as the Weeltwich Clouse obsorbd be inserted. Their win a clause inclined in a beau Weeltwich Ace of 1905; but it was destined that it should not be instructed in the Twheren-boux Edd. I don't know whether there are many English towars that have it but there was this Wiss-English towars that have it but there was this Wiss-

wish percedical for these powers of establishing a spel milk depot. articipal milk slepos. 20774. I don't know that we got from the gentlemen 200714 I don't know that we got from the goutleman may seeve before as from Literapeal whealer three governs were conferred under a local don't consider the way when conferred under a local don't continue has a bad createred to about that a similar quitten has a waited in Gianger up to a certain position that the poor option that no tude power creates under the Acta con-trolling Iteal adminishaption in Irchard—I am quite

sure of that, otherwise the question would not have arisen of the inclusion of the Woodwich Clause to give oh power. gut to you by say Council?—I think no such preposal 35776. Do you know whether you would be nike to give them that power?—Do you mean to equip ploom, and not supply the milk? 35777. Tes?—No; it would not some within any of

derit. Restance, it would be some whom any of their fundations as a similary sutherity. It would have to be confirmed, if at all, by legislation. 3271K. Have you power at the present time to enable them to been many, or mile use of the rates for the purpose of crooking samelers, or hospital or fover words, or anything like that?—That is given partly under the Puberculosis Act and partly under the Public

Hashin Ack.

\$2279. But you don't think that at persons they
sealed use the retes for the purpose of accurrating a
milk depot for the benefit of the community?—No.

they could not.

20180. Would you see my writes objection to this,
supposing it was taken up in small forces, or even in
larger format—"Well, I have always understood that
nilk is a line of bettines that wants to be very
archilly weltshal, and the question is whether the
local natherity would be able to obtain sufficient
later. expericion.

20751. It occurred to senso of us that if you had 20751. It occurred to senso of us that if you had such cauthol depote to the different deteriors had only others or ready, and all the allery shape closed, you cannot be used to be a support of the urban subchedy!—I don't have whether that a solutions as in it nows mids could be beought under the power, say, for the establishment of a market property of the control of the country of the control of the country of the power of the control of the country of the count

conditions. 50792. And an shation's—Yes. I thin is would be rather storoiding the defiables of a market, 50783. Bit Sentrary Wetercours.—Did I understand you to say that if an outbreak of typhoid force course in a rurel distinct, the substantias in an urban district have the spower to said out their medical officer of bards the spower to said out their medical officer of builts to last bullys—Tany lave, if the Intellicus 89782. And an shattoir?-Yes. I think it would be

Diseases Prevention Act of 1800 is in force, but subject to the conflict these they must get a magnitude's warrant.

32784. They have the power of sending their veteri-zary inspector out?—Yes; for the purpose of exemining 527gt. Without the consent of the Local Government 207EC. Without the content of the Local Government Scottle—Fig. they used not come to us. There are two conditions—that the Att I un force in the district in which the districts course, and that a magistrate's various is obtained. Supposing a case of infectious distance occurred in the City of Dallin, and the Infon-tions Discusses Pervention Act was not to force, any, in \$100.00 to \$100.000 to \$100

North Dublin Bural District, that fact would not hinder the Corporation medical officers of health going out with the magnessic's order into the North Dublin Dublist. Of course, the Let is in force in North Dublin, and I only mention it by very of illustration. In every urban district that has the Infectious Diseases Prevention Act in force they can go out into the sur-rounding rural district in case the medical offeer of health has reason to believe that milk from the rural district is escaing infection in the urban district.

22786. Having got a magnitude's varyant?—Yes.

32757. Mr. O'Buttet.—What power has he if he con-siders the drivy a source of dauger?—The urben medical officer goes not with a magneteate's order. He improve the dairy, and if he has reason to believe from the result of his inspection that his suspicious are correct. and that discous is caused by the damy, he then reports to his own public health authority. That summen the and that different is counted by the dury, he then reports to bis own public health authority. They summen the satisfied different to show cause why he milk supply should not be stopped, and if not estimfied with the explanation given, his supply is thought.

\$2788. Sir Sunware Woomsous. - That only prevente his supply going into that particular district? - I don't arrages that question has ever cropped up. \$5709. Mr. O'Berrer......It has in England?...I don't know. II, for instance, a County Dublic dairyman's trade with the city is suspended, he has really no

other outles. \$5790. The question is whether it would not be better for the urban council, or thrir medical officer.

to communicate with the medical officer of the district where the supply is suspected?—If think he does, it a asser or new.

32791. And having said: "We wish this supply to
be prohibited, become we have satisfied correlves it
is a danger to us"...whether them, if it were done
through the local medical officer of hashis, that office

would not prevent the dairymen from selfing say milk at all until he was satisfied that the danger had pessed at all until he was returned that the distipct man present away 5—The samitary sutherity on making at 0 Order suspending the milk supply from a dairy are required to notify the foots fortherith to the Local Government Board, we should then see that the medical effices of the district in which the delry is situate was placed in nor metters in warm the drivy is situate was placed in possession of the divergencement \$5750. Dr. Moresman.—It is only on the conditions that he finds on the occasion of his visit that he can ext2—Yes.

52793. So if you have typicid corriers there, you council tackly them?—Not on the sutherity of any stitutory pageres.

185794 Lady Eventum.—En surfaces 6 of the Local Government Board General Order, 1968, it is stored or "A person who carries on the finds of cowkeeper or shiftymus for the purpose only of making red selfing interior or observe, or 90th, and two does not energy on the trade of purveyor of selfit, shall me, for the pur-pose of regletation, to demand to be a purson carrying purpose of the selfit of the selfit of the selfit of the be registered. "White is the reason of Sath—I cover suitafied myself at at the precise intention of this clause. The hintery of it is that it was included in the origant Glett or the Phyty General in 79, and it always not origant Glett or the Phyty General in 79, and it always

seemed to me that that was a deplaratory or emissatory eleuse as if to define what lime of business was intended os the bosiness of a designmen or purveyor of milk. \$2705. Later Everann.—I may say that every sin witness that came before us thought it very unfair the farmer who was calling butter should not be liable

Mr. O'Burns .- He is subject to inspection if his Mr. O'BHES.—He is subject to inspection it in ortile is Table to be tuberculous. Lary Evenano.—Not if he is not selling milk. 35793. Mr. O'Buret.—If you have an energy-lie veited

outer. In: O there, —it you have in elegate water, many impector, he goes shout indiscriminately?—I don't think he would have a right.

2077. Do you think there would he a practical difficulty in the registration of all own owners, irrespective, whether they sold milk or not?-It is all a question of the limits of administration. I don't say these are The only question is what st are going to grin by it. Sirius. The Courseau.—Absolute uniformity of ad-ministration, and the application of the same Order to all engrand in the milk trade?—The whole scope of the

section which archiceless the Durry Order goes to show that the regulations are intended to apply to the trade in milk, that is the selling of milk \$3700. Mr. O'Benze, -I am giving in lies of wages or in persystems of wages, a paint or a quart of miles or days or or processed or such as day to my weekmen; is that selling milk, and am I a purveyor of milk and lithis to be registered or licensed—I think the opinion we have surrespect as posterior—a tente the openion we have expressed to that where milk was given simply as an allowance to the second at did not involve a sale, but if there was any results sale—an exchange of the commodity for -then that person comes within the terms of

the Order.
33800. But at the same time we have had evidence of major, the furners had reluxed to coistinus giving this the hale honorest, amounts they were standed eccentry to the hale of the hale honorest had been as small part of the hale of th gre, the farmers had refused to continue giving

if the Order applied to them.

Mr. Whates.—There is another sepect of this ques-tion to which I would like to direct year attention. The farmer at present souding milk to the cremory comes under the Gross, but the home butter major is not inspected. Prestically, the offers of that has been ministry, and put the clock bask in agricultural matheds; and the supposition to spoly this Order all round is affected, I think, very kergely by that situation. Now, if you upply the low imparitally to all, that does not involve inconvenience or trouble for the home prevent him being put to a privileged position as com-paged with his neighbour?—That agreement was referred to by members of the Commission earlier in the day. 15800. The CHARGEST .- Mr. Wilson entertern views

on this particular question, and I am attroops, as he had not the advantage of being present which it was discussed, that he would have an operationally of adding gosco. The Challeman .- Mr. Wilson, don't suppose that because we have drawned the motor already you that seeming we have married the interest invery you should be deperted of your right to put the question ogner, because I regard it as a question of extreme importance, and every monthly has a right to choice all northly information in order to mable him to come to a constanten, so I would be glad if you discussed in with Mr. Smith now! —I exclaimed to the Commission earlier in the day that I thought the real difficulty was the question of just at present we had a large problem in our than in presents we may a sugge process in our hands, upenking as representing the central and the local sufficient, and one that takes up all our time and attention in this question of mult slove, and that

of injury to robbic bealth-

the evidence that earno before us-the evidence of injury to young measure— 3894. Mr. Winson,—I agree that that is the ex-planation, but I would like to know what objection there is to applying this Order to a wider class?—The extent of the work. 33905. The Charmens.—I would like you to approach that from a different point of view. We don't contimb from a numerous poem or view. existing authorities duties which they have not the existing artisorrates duties waste power or the staff to discharge. with what would be the most efficacious means of pro-ductor a certain result, and we shall not be deterred in making recommandations that seem good to us because it is stated that the arising maximary is not sufficient to deal with them. It is not a conclusive unswer to say that because we have other and larger resilems to deal with and to administer we shall not be able to take up what we regard as mino and insignificant details. They are countings, even although they should be considered details. We shall not heatable they should be considered details. We shall not humanly for recommend that sogon machiners shall be devised for the purpose of dealing with them, even abbough it may satisfy a reash larger extressive of sharministation than has hitherto been devoted to it, and I would invite you to approach the outsideration of the grass-tice, not been the print of view of arising regulations and resolutions or of the satisfy withink to the and morbinery, or of the staff available for the propose of energing out the measury administration connected thereseth, but from a zor, improved, collarged, and extended operation of the same Order, and the very same principle. You have directed our attention to the fact that when the Local Government Board were the fact that when the Local Government Boule were putting into operation the Dainier Order they did not wish to rush bludly against all local authorities, and the at accomplishing too much immediately. Now, with to read urrancy against an rotal theoremees, and slin at accomplishing too much immediately. Now, if I may say so, I quite sympathies with that adminia-lenten, and think it was extremely thoughtful and well conceived, but we contemplate this matter from nell oscoured, our we execution point of new. happe mind yet year educated ht apen han fone done public mind has been educated by what you have done up to a certain point, and our aim and object in to provide you or seems other public authority with what are machinery may be accessary for the purpose of periodical the work on which you have already arm bright, and carried to a certain peen; hyporal which, and carried to a certain peen; hyporal which, the provide admin, you cannot go, in where of the fast that you want to have you, or any other articles in an air we want to holy wey, or any other articles in the periodic periodic periodic and we want to be you, or any other articles in the periodic perio want to help you, or any other authority that may be want to help you, or any other authority can may be areated for the purpose, to every out the scheme we have in contemplation. If you would consider the mayo in contemperation. If you would commor the question from that aspect, rether than from the aspect of the powers conferred and the staff synihity, I think is would be much races helpful to us. I admit it is going into the prospective a little bit, but I have we

an rely on you to asset us in deviding the machinery

to carry out the work efficiently?—I am here to assist

to carry out the work emeants ?—1 am neve to many yee, and I am celly too glad to careat you in any way I can, and I should be serry if anything I enid should seem to befulle the suggestion you have made.

39800. It is not a question of belinking?—I cannot get every from the standpernt of public health. I approach the question purely from that support, and it approach to me that the question of the want of unopposite to me than the question of the want or uni-formity of regulations arases, not from the public health attraspoint at all, but from the commercial standpoint. \$5507. Mr. Wilson,—You soom to ignore the fact that there are other asperts?-Speaking as one conin prisite health administration, it does not written my nurview. You ask me whether in crited in passes beauty softwaresteron, it does not owns written my purview. You sak me whether in he interests of public health—after all that is the legest I look at—a, is disjusted that home britten makes hould be subjected to the same regulations as other mild producers, and I say I see to proved necessity for it, on prible builth grounds, and if I did not an ellimate accessity for it, there is a fee more immediate processity for ransing the stendard of mulk production for human communities to a bigher lovel.

32808 Mr. O'Bunes.—I think the point rather as
these what you might oul a commercial aspect in milk

has a very serious kaprotonce with regard to the agricultural keelich. We have long ago come to the conclusion that you have longest a larger supply of noith in helical available for the people, and if by say sulfit in Leuland awaithth for the people, and if by any societ of existionary are distribute the supply you may affect the health of the people. If these restrictances, the people of the people of the people of the transfer of the people of the you are reducing the consensat of a surfacely feed that you are reducing the consensat of a surfacely feed that the public should have?—As for a may offered one. nitsuce goes, there is in the bulk no insufficiency of milk for the general population. At any rate, if the milk surpely is deficient, the coronnelance does not arise from the want of the production of the milk, or the sufferement of my regulations attached to the production of mile. Again, so far as I know, the enforce-ment of the regulations has not tended to reduce the volume of the mife supply available for human consurregion, and with the exception of some isolated came creamery suppliers have termed to making ortice at borns rather than come under the Order, I have not beard of any ease where the Order has driven milk producers to the manufacture of horse

82900. Sumly the question is whether the effect of registration has not also dynamical the supply by making present give up producing milk dispetter).
So far as the genual information I have been sale
to get, it is only in one small part of the country—
the noethern part of Newtownstein district—that that
the securing.

socurrou. 38816. Mr. Wrtson,--I think that is true, and that is one of the vessens why I except understand the objection to upply this Order all round. Admittedly the Order is not by any meens a dreater one.

The CRAISSAN.—There is the aspect of the question. that flour not naturally appeal to Mr. Smith, and it list does not naturally appeal to Mr. Smith, and I is thus—that the Commission dealing with the question as a whole should make recommendations that should not interfere with one branch of the infusion and leave another hunch of the industry free to follow its own award will. Mr. Smith is not economical with own Report form that point of new Point I should be concerned if I were to accept the proposition that the central substitute and the least subscript ought to be responsible for the control of home butter makers. That is the names why reduce. That is the reason why, perhaps, I am rather shy of making the elimination. If I saw public health grounds

making the attraseror. As a not permit became both of ordering it, I should appre readily.

Lary Evenann—It is calified on yealth health grounds that we see peninting out the momenty of extending the Order to home author makers.

SMILL See STRUME WOODSTORM—It the notification

SSRIL. No STREAM WOCKSCORE.—It the notification of enteric fever compalacy in read districts!—Yes, where the notification Act has been adopted.

38312. It is pearally segreted!—It think is in.

38313. It is to not adopted, there is no provision to prevent entering game finding deler way into the notification in not convertedly compalacy.

32814. Some districts have adopted it, and some have 33835. Have you any idea of the proportion of the cal districts that have adopted 117-114 cut of a total rural districts. of 213 rural assurces.
23856. And to some extrot that would be see that
chance of inferites by home made botters. The distriet that have not stopped it are not, it point of
view of milk production, of orners weight.

an infectious disease

(2017. Does the power of compulsory notification of infectors diseases lessen the observe of home made butter conveying it !—The information that I have in that there is no proved case against butter as a someon

22438. There is very little known of typical fever being conwayed by home made better?—Yes. A medical other did rates the question in Ennisicilles. No. 2. officer did rates the question in Ennishilles No. 2 Royal District: he sated un whether be could selecbutter coming from a house where there was a known one of orders force. We teld him that if he could

own that the bretter was inducted, he could do ac-That is the position. \$2819. Mr. O'BRIES.-Is it not a fact that in the of the butter-butter from a factory where

the milk may be infrotted by toplaced germa-the more fact of releasing it to a temperature not sufficient for a complete pasterislastive, but to a lower temperature than that, will destroy the typhoid germa?—I believe the contribusal separator is one of the things that seat the countriegh separate a one or the things that sender oreanise; butter less liable to narry infection. n2890. Sir Serwang Woosencon,—Has any silented been made to deal with butter coming from a locate that is known to be unfacted?—It is a cuspition of

proof really, whether the britise itself is infected.

38831. Supposing it is proved that typhoid fewer
counts in the house?—The most be prepared to prove
that the briter is detagrous to the public health.

88822. Mr. O'Brunn.—I should like to know to what states: the Local Government Beard has power to deal extent the Local Government Beard has power to deal with a medical officer of health who, without amorely concealing disease, is very stack in dualing with it?— We should deal seriously with such a case.

SSESS. What power have you?—We can remove him om office in a bad once. He has the status of a oor Law officer. Foot law once.

38624. I sak the question for this reason—in my own fistriot a short time ago we had a case of fever in a labourer's house. It was not one of the Union orthages. The propies of the house cant milk down to the recomment. econitoually, and were solvedly scaling stees at the time that the disease existed. Nebody thought that there was very much in the illness of the children.

there was very much in the litters of the emba-there were some neighbours who went in to see how the children were getting on, and one of them, a woman, kinetic back the infection. Two of the children died from it. Then, of course, there was a —boat it = 4 by decire was noticed. The houswoman, before nea-children died from it. Then, of course, there was a new shout it, and the doctor was noticed. The hous-was, however, never properly disinfected. The place, the course of the cour se for as we could make out, was furnigated. was on old woman in the house and she refused to o out, and she said they were amothering her when they were distributing the place, and the opened all the windows. No notice of the fact that there was disease in the house was sent by the doctor to the creamery where the milk was taken in. We heard shout the librar after it was found out, and east word to the creamery not to take milk from the house. The disease had, no doubt, here herught from a further district to this costage, and that further district was also against milk to a resurrence. We had more

was asse sensing milk to a measurer. We find more or loss droths that the dector, who was a well-off and oldfah man, fill not show real, and we wondered whether their wax power to see that things were trooperly serviced out!—That accords like n came of patent neglect.

BBSG. The Charman.—If you had a medical officer of health, would it not be his duty in the case referred to by Mr. O'Bran is removalent with this officer, and If he was again guilty of developing of duty, to report him to your Board !- The way we would get in touch with it would be this-in every oses of dangerous infeetions disease the medical officer is required to furnish the Local Government Board, as well as the auxiliary authority, with a report aboving the date of the out-lowed, and mann, address, and age of the potient, the probable curse of the occircuit, and the measures felius to drail with it. It is the day to end such a report

to the Board. 52826. Lady Evenano.—A private doctor?—We have to confeol over a private deeler.

\$8827. I know a case where a doctor refused to allow a house to be disinfected?—The auxiliary officer ought SEPRE. He was the sentiary officer, and he would not allow it to be done?—He refused to allow it?

\$2829. You, absolutely refused. He said he did not believe in infection. He thought tchercollets was not

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omen's National Health Association to disinfest the bosse?-I think if we heard that, we would send an spector to speak to him. his certificate, and that he would not give a certificate.

Mr. O'BRITS.—Coold be prevent argone size safering the house?—No one size would have the right of

He would not allow us of the

Labr Evenan.—There were four small children in the honer, which was absolutely recking with tober-sulesis. We sent, the woman to the Allan-Even Here, and the dector would not allow her house to he disinfected. I not all the pressure I possibly sould

92831. Mr. Waterst.-We have had both on the medi elde, and still more on the reteriousy side of the public scalth service over and over again, I think in every looks service over and over again, I think in every looks service over the over the control of the second of the control of the control of the second of the service of the control of the second of the second of the control of the second of

o the saterimery officers regularly. \$2832. They are not man of his own profession?—No. 32883. It has construct to us that if it were feasible

SISSAI. It has conserved to us that if if were featible it would be very desirable to give those whereasy officers that are appointed by those local cubborlines some indeed to benefing from a man of their own profession, and I could have whether you have already copessed an opinion on their—I don't black that questions and opinion on their—I don't black that questions are not only; but on the provious consideration when I was examined before the Communical of staked. that I thought the Local Government Board would gial of a recommendation than a veterinary inspector should be added to their staff. We quite recognise that the medical inspector has his hands posity full with other work, and, of course, there is the adventage of he vite a man of the same profession conferring with of having a man of the same profusions contenting with this local velocitionsy impactors. 200545. These that things one round to the point which 200545. These that brings one round to the point which we have talked own samon governors, and we have not derived, anything wary definite yel-we have in this country at the prescrib time got a service of Depart-mental intepelors and instruction working all over the country under the Department of Agistration. You

country under the Department of Agriculture. You also have get a large sectice of verteining gradients working under the local authority in public health work. More, it is impossible to device some schome of the section of the sect Board should, of ocurso, retain the executive but so far as the veterinary service is someorod, that they veterinary manuscript that you make of test now might work with an advisory committee, an which the Department of Agriculture would be represented. understood from one of our witnesses the other day that already it is the usual convenion to discuss details between these two Departements when one of these veterinary quantions come up?—Yes.

2520. I would suggest that that convention be made a part of the official scheme?—I really don't know sufficiently what the handlens so of the Department's relectory imperiors to say to what extent they could have now the driess limit are perfected by the restrictory take over the datase that are performed by the vaterinary unspectors of the satisfary authorities. I connot say, on the whole, that there is a sufficiently large number of numitions that involve the dual assect of uphile health and veterinary business to fastify the creation of this joint committee. It is only now and then that a question of policy ortes, and it is generally autited by correspondence, or a conference without much diffi-culty. To bring all the details of administration under the cognizance of a committee like that would be return

s commission of a commission for their would be return inherences, and tend to delay. 32535. In does seem to its, an unduly complicated

groups. At data seem to mit an unmay compareson ormagnesses to have bro distinct whereiven yearbox in the sountry—one handled by the Department of Agriediture, and the other by the Local Government Beard—and both of them from the necessity of the case tanding to be maker underpaid—the notividial waterinary inspector in the country—and to that extent below Mr. J. L. Sterre.-18th December, 1929.

par in efficiency. For instance, one leaves with regard to the west-inney officers appointed by the Rared Discuss! Commit that in a large number of cases the appointment is a fasco and in Bedry to recent as 0. Los assessor expects a large vanished of efficiency in 23837. Lany Evinant.—You cannot expect a man to proscept his counts or whole from whom he derives his principal means of irealthood?—There is, of course, that trouble—the carffict between official duty and

saterests private saterests.

5558.6. You don't give the man enough to live on?

—No, he must depend also on private practice.

Mr. Wasser.—Here we have two sets of othersis throughout the country.

32840. Sir Senwarp Wondonouss.-- I think your view Mr. Straith, is that the most ideal arrangement workly be to have a veterinary whole-time officer for each comity in Ireland?—I suggested that as a substitute

the present part-time at Supposing that that should be found desirable by measur of expense on rotes, would it be a fair working system—act an ideal system—so have two or three volentary inspectors appointed by the Local Government Bowd in the same way as mulical officers are appointed, to topervise the country and yet pressure on all the local volentary inspectors—I love

presented to that suggestion sizeady, which was made to Mr. Wilson. by Mr. Wilson.
23949. Later Byrmans.—We have laid evidence from relatinery inspectors sixting thes in would halp them themseasily if they could say! "What ears I do; the impossive requires such a thoug done, and I have an passer test to early 16 out."S—I think I is would nationally strengthen bit hands. They suggestion.

durbintly alwayshes are version for the Local Government hand.

Let us the electrical dark think is ought to be assumed to the experiment hand.

Commenced dark think is ought to be assumed that the expediterious of whole-time offsens assumed that the expediterious of whole-time offsens would of necessity intraces the turbins on the rater. The host adulting in Dublin Company gay once 2000 in The host adulting in Dublin Company gay once 2000 and the second of the company of the second of the company of the compan

whole-same officer.

Mr. O'Benze,—If you had one whole-time officer, and
it was a large district, he neight be paid a buggish salary with the province that he had assistance.

salary with the provises that he hid assistance. The Counter-Whit or west is to get reaso independent man who will be in a fermental past-dependent man who will be in a fermental past before or any notive same and be accept the official discharge of his duty, and that he will have abshirtly third to be presentable of the India. vidual whose interests may be affected or inquired by vidual whose interests may be affected or any any recommerciation be makes; that he would ceder is to be done, and that it must be done. 33944. Ludy Evenano. -- You say, Mr. Scribb, there is

moses. List's avenue. - you say, Mr. become, mere as no power to take blood from a person in the case of the Widel test, or a swab from the throat in the case of dightheria? - No, not without coment. Tou source do it compelsorily 22945. Mr. Wayson, abilità de la compensant;
3896. Mr. Watsor.—Ane preservatives allowed in
milli under any condition b—The English Benad recentify
inseed an Order an to the Hinitis of preservatives in
milli and creum, and we shall probably do Hirvrise
alter a hillit (has. I don't know that there is say

atter a fittle time. I don't know that there is any Statestoy Hund. 3890. Dr. Messattan.—Section 5 of the Food and Drupp Acts of 1975 deals with it. If does not allow any mixture, colorating, or providing of any article?—

want to see the wesleng of the Order in England we take astion. 19947. Mr. O'Darry.-Is it not a fact that we are allowed to use a certain amount of preservatives in

allowed to use a termini handle public and milk?—
Dr. Monantan.—What propertatives are you allowed

Dr. Monaman.—uses prevented by the Official—I thought us were not prevented by the Official—I thought us were not prevented. —I den't think it is completely problished. —I den't think it is completely problished. —It is not the prevented by the prevented by the last year in these McKunt.—There was ap Act of last year in which the question of torsels and was dealt with.

80948. Mr. Witsest.-One of the various suggestions 6898. Mr. Wittest-Cone of the various suggestions what here been reads in the owners of our proceedings was that the both subtreety might be normalized you as that the book subtreety might be normalized you may a fluid out for posting on blooders of a measurable proton. Mr. O'Bentreet—De you man by that this is local body could spyly the roles to the purchase of a term park that was mining that the role of as a major that the country of the subtreety of the product of a term park that was mining soil, to be made use of as a

Commonage?
Ms. Witson.—Have they the power to do that, Mr. Santh?—No: there is no existing power under the existing sentency code.

32849. Mr. O'Brows.--Have they not power to make

a yabiic recreator pack!—Yes: but I take it what is sequired it grazing ground. The rural authority has to some to us to sequire recreation grounds, and we watch at very closely. It is a kind of thing that is

accept to the terraco.

18860. It would not he in your power to wink at a correction park where you thus it was to be used for dairy core fee the use of the parish or town? for daily colors for one are at the parties or writer-it don't which this we would otherspite to which as it, 16863. Mr. Whades—"You would entently object to that power being green for would entently object to that power being green for watch a purpose "—After all, is there such a great difficulty throughout the whole of Iroland in griding preising ascommodation? 268523-5. The Charleston—"We have been infarmed

DESERTABLE THE CHARMAN—WE have been inturned that it is impressible to get it in nome places, and that the local people have gens to the Estates Commissioners to merve portion of host for one packs. It store any objection to the local outborth becoming responsible for the repayment of the purchase annuated that would be imposed on such an undertaking? In

three not hand difficulty in the result estimately beaming responsible for the payment of the purchase standing on the cortico of lead within world for verted it them for a specific proposes—I can not owned that having only note process. If they have not got the specific cover note process. If they have not got the specific process of the process of the process of the process 2014s. He Woods—A that he has reposely noted and not differ materially from the present proces to own load for a believes—other, or a processive—World of course, it is a specific of policy.

District Cornells had taken hand where it was skriped One,
Mr. Wrieck,—At any rate, you give one to unpose
that the difficulty at present in the lack of these
specific powers?—Yes. There are no powers to my bace ledge.

60006. Mr. O'Bette,—Con you say when you were getting one this Table if you got into your elativities the number of cases of enterio lever that were axisting at the same time? In 1993 there were a monker of cases in a pertendig district; was share at that time much arrives in distinct above than that particular district?—I did not really go into their. It is definitely stated in regard to Cartifordized their work time great rittering of critical fewer there had been no programmer.

rintelean of retails power term his own to provenous of catesis in the diction, and in general torses that applies to the whole list. These outbreaks are agonyof carries in the metron, was in graves are accomplished to the weeks list. These outbreaks are accomplished, and they carried be carrieded with any of the ordinary causes erdinary causes.

§5860°. Dr. Mooneran.—Pastronnation, on a rule, is
not carried out in these creammies?—Not in the
oreameries found to be associated with disease; or if

It has been corried out, it was only in a perfunctory ay. Sough You have mucked on your Table the creame. 2008. Yes have movided on your Tables the resumers free where particularly plant is ready-free. When I are seen to be a se

The Chumany.—We are much obliged to you. Mr. Smith, for your attendance,

\$2000.

(Prepared from the Reports and Records of the Local Government Board).

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	Senitary District.	Dispersory District.	Approximate Date.	Number of Cases.	Observations.
ı	Bandon	Bendon	August, 1863	43	See article by Dr. Welgir to "Lamost" of first April, 1984.
S.	Trales	Contlicinised	October, 1893 to May, 1894.	100	kland Creamery male centre of
2	Efferney	Molahitle	June, 1994, to Spring, 1885.	- 50	Reflection, Reflectoring Creamery.
5.	Tipperary	Banda	Septomber, 1884 July, 1885	43 20	Researchit Creamery, Researchitd Greenery; all cases will in a short rather of Creamery None satisfied erropt those will
4.	Kiftonny	Tullareen }	October, 1865	200	pertook of separated sails. Early reses disgreered as Typica
2			Mareh, 1886		Free or Influence. Moreus Abbey Creamery.
8	Exeluck		September, 1886	21 1	Listeral Descript
		Bettovast Catletene		14 J	
	Mitchelstown	Mincheletows	October, 1886	34	Channery at Granagh. Milchelatown Greenery. Closed 10th November, 1886.
	Newcastle West	Ardagh Baibkeale	December, 1998 to	69	
	Kilmalicek	Ballyhea	Morch, 1897. Jene, 1897. to James, 1898.	42	Aringh Creatury. Starlingh Creatury. Start patient brought home from Mallow. Disease spread through Ballythes Oneserver.
	Newcoatle West	Femagh and Broad- feed.	September, 1997.	24	Ballybes Geneury.
	Kenturk	Semantat	September, 1807, to January, 1806.	39	Discate imported from Newsattle Exactly first strucked supplied milk to Country.
15.	Exclusk	Milliord	Denumber, 1807 to January, 1806.	25	
16	Knetuck Newcastle	Frequeb		30	_
1			May, 1898	(13)	_
ū			November, 1886		Ferragi Creamery.
29 28	Stigo Bellyskanoon No. 3	Kinlough	Jume to July, 1886 March, 1999	30	Ballichal Crannary. No pasteuri- sking plant. Temporarily closed Knalough Crannery. Milk stones by ountcessers in sleeping and Tring
	Marie				sparkments.
	Miletreet	Colleg }	August, 1000	{ 20 }	Noboval Creamery.
22.			October, 1900		Mera Createure.
22.		Arva Navport	Nevember, 1909	50 60	
34.	Neragh	Silverusians f	April, 1961		Bellinkisch Creamery Every patient had ceten bread made will ecounted mile.
55. 15.		Gurteen	September, 1901	25	Outfanak ceased on temporary clovers of Coursesy.
27,	Callien No. 1	Clearagle Kilmogunay	December, 1901 December, 1901, to January, 1902.	18 26	Creamery closed 5th January. No
28.	Kanterk	Negmarket Kepturk	March to April, 1902.	31	Newmarket Creamery.
20.	Keesterk	Bewmschat	May to June, 1902	10	Knockscommer Creamery, Infec- tion imported from preceding out-
20	Tipperary No. 1	Cappagh	Jame, 1902	23	break. Hollyford Oreamory and Brench at Anneanty.
31.	Listowel	Tarbet {	May, 1963 November, 1963	11 {	Tarbert Creanery. Two outbraka.
12.	Mitshelstown No. 1				_
33.	idiga	Chifoney	November, 1965	90	Milk-comics, timb patient. Bullio- trillick Consumy temporarily sloved.
	Limerick No. 1	Cappanore	July, 1994	24	Cappeaners Creamory. No perteuri- steg plant.
	Tipperary No. 1	-	February to April, 1905.	10	_
36 37,	Charlovilla Omagh	Gortin	August, 1905 Hoversber, 1905	72	Bullyhea Creamery. Generatelle Creamery setablished 1905. First policies was attendent at Creamery.
26,	Glin	65n	Jacoury to May,	a	Pesteuriser and sand.

Developing Greature

	Saultery District.		Dispensery Dist	ziet.	Approximate Date.	Cases.	Observations.
43.	Magorhamilton		Dromahacre		September to Docum- ber, 1907.	-	Thirty-six bosses. Number individual mass not secretain
44.	Oawgb		Gertie		October to Decess-	13	
45.	Listowel		Tarbert			20 79 36	Pretenciving plant not in one.
	Manocharaliton		Manorhamilton.		November, 1966		
			Decembrie				Fifty cases for year
					March, 1999	16	
49,	Thuring Nennel)	:	Bermakigh Toorserares	-{	July, 1909	51	Carmbohs Consumery.
50.	Tobecomy	{	Coolinary Tohercorry	- {	April to December, 2010.	93	Camalagh Consessry suspected.
	Englishiller.				January, 1011	25 25	Degrygowasily Congage,
52.	Cencen		Ceocen	- 1	May, 1911	25	Banagus Creamery. No posteuris.
	Kilmalnek		Enume				plack.
63,	Trules	-{	Ardiret Trake No. 2	-{	April, 1912	16	Tabrid Creamery. No effici-

TIME DISTRIBUTION OF ENTERIO FEVER OUTBREAKS RECORDED ON FREVIOUS LIST (Pages 179-189).

Approximate Date of Onect.			sect.	Band Sanflery Districts affected.					
-									
January				Olin, Eppinidilles,					
Petersery									
				Oork, Ballesbarron No. 5, Kanturk, Kanturk,					
				Nonagh, Tubercorry, Trales.					
April May June				Killarney, Kilmallock, Silge, Tippersay No. 1.					
July			- ::	Tiperrary, Mitchelstown No. 1, Lizzerok No. 1, Boyle No. 2, Manusharalitan, Listawel					
				Thereis.					
August									
				Toperary, Mallow, Newsouth (Co. Limerick), Kanterk, Boyle No. 2, Manocharefton,					
		- 17	- ::	Traice, Killeman, Croom, Mitchelstown, Manorhagelton, Omast, Mitchelstown No. 2.					
Navember									
				Sligo, Distorrel, Omagh, Memorbonilton, Cavan, Newcastle (Co. Limerick).					
December				Newrantie (Ca. Limerock), Kantrock, Macroson, Callan No. 1, Manushare Phys.					

RECENT MILK-BORNE EPIDEMICS OF ENTERIO FEVER.

Year.	District.	Date.	of Chase.	Observations.
1906.	Cleanel Urban Bushridge Rayal	January-May August-September	: 27	Origin obscure, but probably infected milk.
1907.	Selfut Co. Bernegh Lisburg Runk	August-October	:: 13	Unreported one in selfe-vendor's family. Ill defined blaces in milker. Widal test position.
1908	Dallin Co. Berengt	September-December	340	Classical enidensis.
	Sweeterd Rural	Ostober	40	Killerangh Convent School; Carrier to damy precision.
	Eccucurity Urban	November-December	17	Fever of a mild type, not clearly defined, probably enters.
	Londonderry Co. Borough	Decreaber	29	
1999	Continher Hursl Continher Unben	Monh	15	Attendants of Lunnile Asylum attacked. Unreported case in family of Asylum Will contractor.
	Carlow Urbaca	Aud-May	10	ALL CONTROLOGY
	Fermey Brand	March-September		Typhold Carrier.
2030	Traine Urban	November	1.0	Case of these in milk vendor's faculty.
2920.	Bullyshannon Paral	July-August	16	Bundorn; organ of outbreak obscure;
	Mallow Urben	November December-March	28	
2911.			30	Donacloney, leaced to Typicid canver.
				Contaminated water used for washing mile
		Juntary March	9	man and a second
			50	Two daines involved. Origin absoure.
		Ortobus		Unrecognised owes in mile vendor's becau-
	Gelway Urban		12	Unrecognised once in milk-wendow's faculty.
	Nearry Urban Dublin Co. Borough		18	Patients supplied from one dairy, but cause of infection doubtful.
	Diffile Co. Borough	October-Jacrany	9	Source of infection doubtful.

The Commission then adjourned till the following morning,

SIXTY-FIRST DAY .-- SATURDAY, 14TH DECEMBER, 1912.

The Commission met at No. 5, Upper Castle Yard, Dublin.

Present :-- P. J. O'NEIL, Esq. (Chairman); Lady Everand; Miss Margaret McNeill; Sir STEWART WOODSOUSE, M.D.; G. A. MOORSHEAD, Esq., FR.CS.I.; ALEC WILSON, Esq.; and DERMOD O'BRIEN, Esq.

S. W. STRANGE, Esq., Secretory,

Mr. Jone T. Denemas, B.L., Registrar and Austriant Sceretary to the Estates Commissioners, commined. 52861. The CHARMAN.—You are Registra and Assistant Socretary to the Estates Communicaces, I spotentiand, Mr. Decements—I ago. 32807. As you may have beard, this Commission has been appointed for the purpose of inquiring into an alleged scarolity of milk in certain urban and rural distincts in Iroland, and the causes represents for the shortage. Amongst other causes that have been aggreed to the Commission by variety witnesses these country, is the difficulty of procuring land for the grazing of cown in certain rural district. We have but evidence before in that the Exists. Commissioners do, when dividing lead emedget small landowners, marre certain politics of an estate to different parts of the nountry for the purpose of grazing the corn of labourers or small farmers in these districts; and it is mainly with regard to their particular branch of your work that the Commission would like a little of your work that the Commission would like a little feether information. Have the Estates Commissioners feeter minimation. Have the Estate Communications over hear obliged to refuse applications for an elletment of land for this perpose?—I am not aware of any occasions on which the Communicationers have had to

refuso much applications. \$2500. Have pronoceus applications been made so for as you know?—I don't think so. Analysations as Applications as for as you know?—I don't think no. Applications as they are received are placed with the papers relating to the existe, and they are referred to the improve-whose business it is no propose a science for the allo-ment of the unbranded hands, if any, on the relate for the approval of the Oceanismances. Whether or not these papers contain an application for a cow plot, if the La-spector considers that a cow plot about he provided, he recommends the Commissioners to provide out, be suggests the area and the annuity that should be payable by the trusters. He also margests the raines of the trustees.

of the trustees.

#2864. There is no rule or coder of your Commissioners to the Impectors communiting them to refuse somes to the impectors commissing them we recove to consider such applications?—None. \$3865, Mr. O'BRIDS.—There have been some such police/does?—Yes. I should be rather inclined to my first the refusals opone from the tenants and not from

USB the consequences, —Local difficulties have some firmer been reard, each triber lands have been dis-tinct been reard, each triber on personal m-tributed people took coper to their own personal m-treets, then to the public interests, and protests have this purpose?—Yes.

50907. You have no information at your disposal
which upotal coulds you to say in what number of
cases these protests have been made?—No.

10908. These protests would have been locally made to your impectors when they were on the catalo? as your improver want tany were on east extent.

Tex, and also by letters addressed to the Commissioners.

COMPO. With regard to the question of security, do your Consultations for the amount of individuals or the security of a public holy for the payment of the sentingly—The Commissioners have an arounty on the land for which they consider the lands to be

the lain for which was colors to know whether you agont to know whether you MBPO. Yes. I was only curious to know whether you preferred, having local representatives as registered owners of those plots, or whether you would prefer having these vested in a focal authority, in view of the fact that we all know that from time to time burman brings pass away and difficulties arise tometimes as to the nomination of successors, and whether a represcatative body having a continuous existence would be scussiva oozy having a continuou existence would be a more exhauntial security than private individuals.— Undoubtedly othat you have pointed out wright with Commessionary, the local authorities are a con-ticutog body, wherea private trustees pass arriy, or

squaetimes decline to set. Again, the rural authorities have the collectral seaterly of the rates. On the other have the constraint coursey of the recor. We see support the band, of occurse, private treatmen, where you get, as we have been festurate in getting in a number of cases, roun living in the distract who know the wants of the geogle there, they are no death in scope cases more destrable treatees then a roral council, the majority of whose months in do not live in the immediate neighbour-

32871. At all events, no difficulty has ever artern about the allocation of these plots in rigard to the person or authority in whom they are to be vested?—I

permit or authority in whome way are to be vention— more decased oil.

The control of the contro

Congressmoners have had power to give any allotment to District Commiss at all, and I don't scally think to District Cummits at all, and I dust's restly think argone, one hay down any general common from the more arrangement of the same property of the same property of the same proposed to the laws of cases in, which allotteness may be a supposed to see that a 222K. The Cumman, I am photosed to see that a 222K. The Cumman, I am photosed to see that a 222K of the same we had not provided to five or three lastatones in which has been down.—I mean that it had only here knowed to the homotropic of the Commission in a couple of the Commission in a couple of

to the movement of the Commission in a coupe of cases—in Athanay, Oldenskie, and Croom?—Yes. At Athanay we did not make an alloitment to troubces. 22075. No. I understand what you did there did not signa No. I interested what you do were in not meet with the on-operation that his local people desired, at least it was represented to us that, although the lend was nominally given by the Eusteen Commissioners for the purpose of enabling the inhabitants of Alberry town to heep cows, there was not a single extra over on the limit. I am not making any point against your Commissioners in that; I only point it out to about that the selfishment of individuals will complimes

show that the selfabrane of milwindrals will exceedings defect the must have related policy of a bend of edgent-month-Well, with regard to Alberry, I think I am couldn't be say that the Cornsiderace consider that a single indicator, and that it was made in accordance with the winter of the inhabitance of Alberry. 20297. That was not disputed in the very least by the winters who was considered before us. He quies admitted that the silicontard had been made in coordinate with the winter of the boll populs, but the adaptance who are whose or the from poople, the are allegation made was thus—whereas it was obtained that the land should be allotted in order,—to could the Schaldsants of the town to keep cover, not a single cor of them kept sown on the land;—Of course, it is open to them to keep the cown on it.

207% I agree, but it kappened they did not?—I should, perhaps, explain that the town tenents were need accious to purchase their haldings in form, and that is do this under the Land Purchase Acts it was test to do this unity to haid rurense Acts it was recessary to link with their town heldings as allet-ment of hand. The Commissioners did that, and the combined holding, subject to a combined annuity, was vested in the tennet. Each owner of the allocance was utilize his lands for vegetables and for the pasture of cettle, or he can meadow portions of the land, so that is the whitey he could feed the cattle.

Mr. Joux T. Dunesan,-16th Decreiber, 1913.

32879. I am not in the less reflecting on the advan-iages of the scheme. The only point I wanted to make was this—that if the Commonweak were auxious to cooperate with the size of helping this Commission to scents additional pasturage for shock that would be mill-producing stock, it would now to the Commission to be more desirable that complote where possible should be allocated, to embly people to keep core that would be milk-producers?-In allotting had Commissioners have regard to the foot object of the Lasa Furchase Aris which tary sammers is the transference of the ovurrahip of the last to the compying tensors, and I should, parlians, call your attention to the fact that Parliament Staff has specified the classes of people to whom lead is to be given. It have been a short statement with reference to the

procedure as reports the sale of estates under the Irish hand Acts, so far as the Estates Commissioners no 82800. Of source, I quite recognize that the Estate Commissioners have get to administer certain Arts of Parliament which have been extrusted to them, and don't waggest for a maccont that our policy shaeld in way interfere with the policy ministropers from that noted of viwas pointing out was this, that when the Estates missioners would be equisidering these individual questions, if they were destrous in assisting the purpose for which this Commission has been appointed, it

would, in our opinion, he most desirable that the land should he reserved in that way if possible. Beyond that, of course, we don't go?—In the chromataneous that you mastern, I may say that the Commissioners are preceded to union elletrously for the grazing of 52831. Thank you very much. That is all, I think, that we could expect the Commissioners to do, and I was only analous to let the Commissioners know what was only finding to be in the contraction may write our experience was as to the efficacy of the efficiency abbunes of allotment which they had adopted, and we ware told that the Oldonelle scheme has been must unresultal. The Athenry solution, on the contrary, has not been a successful from that point of view, but I don't suggest for a manufact that the Athenry scheme a failure from the Commanipolers point of view, only that it has not recorded in dealing with the question in which we are interested for the moments. I understand the position of the Commission. Perhaps is would be well if I stated shortly the precedure as regards seles of estates under the Irish Lumi Perchan-Acts, so far as the Estates Commissioners are onregions when of some under the first Lorin retreated Abots, as far as the Bestive Commissioners are operating. These asks may be fiviled into two thoses, of (I) Direct asks in) isoliceds to tensate, and (I) solice destines to the Zebites Commissioners for the purpose of reside. (I) Direct asks consistency for the propose of reside. (I) Direct asks consistency for the propose of reside. (I) Direct asks consistency for the propose of reside. the soles. In three sales the owner of the estate.

purchasing telests as owners in for-simple. The Estates Commissioners have no power to acquire any nortion of a tempt's holding to provide a "cov.nict."

As regards the second class of sales, sales of estates to eases include, in addition to tensuted of untersected land, and it is only to those estates comprising uniteracted incd that the question of the Estates Commissioners providing "core-plots" can arise. Section 17 (1) of the Act of 1969 provides as

the Estates Commissioners, those estates

In the case of the sale of an estate to the Land Commission, solveness under the Land Purchase Acts may be made for the processe of purcels thereof by

(a) A person being the tenant or properties of a halding not exceeding ten pounds in entrable

value: (8) A person who has surpositured life holding for the purpose of relieving compation;

(c) A person who, willish twenty-five years before the passing of the Aut of 1003, was the teams of a holding to which the Land Auts soply. and who is not at the date of the purchase the tenent or provinter of the helding, or, in once such person is dead, a person uconjusted by the Land Commission as his personal representative

These are popularly known as avioted tenants.

32802. Mr. O Burnt.—It is not the Evicted Tunants Act?—No. The Evicted Tunants Act is su Act giving the Estates Commissioners compulsory powers to sequire land for the reinstatement of evicted tenacte. The remaining clause of Section 17 (1) of the Act of 1960 la-(d) Any person to whom to the opinion of the Land

Commission, after adequate poorison has here made to satisfy the requirements of the persons mentioned in the processing paragraphs of this web-acction, on advance ought to be made.

It will thus he used that, in the distribution of univariated land, the Estate Commissioners have, in the first instance, to consider the requirements of the penson mandamed in classes (a), (b), (c). The pre-vision which make the Essiets Commissioners to provide "cov plots" are those comprised in Scottin 4 of the Act of 1700 and Section 18 of the Act of 1909. These Sections provide that advances may be made to restors (i.e., (e) private individuals approved by the Estates Commissioners, or (b) the Department of Agriculture, and County and Bural District Councils, agreement, and cominy and from Descrit Common ion the purposes, irter cite, of pasturage, and such treatees hald the land subject to a scheme for the user thereof. The scheme in the case of private trusters in settled or accuracy of the the Lord Licericanst under settled to approved of by the Lord Licertensian under Section 20 of the Lot of 1900, and, in the case of the Approximat Department and County and Roral Distribute, it is notified or approved of by that Depart-ment under Section 38 of the Act of 1800. I are not heders he comes to the Entates Communiquees at all anters into agreements with the tenants for the sale to them of their holdings, at prices agreed on between the parties, end, provided that the Estates Commis-sion of the best of the desired and the desired an "untile" for the purposes of sale, and that the aware of any other statutors provision enabling local awher of any outer wantery province coaguing some authorities or other hodies to soquire lands computerily or by agreement for "com-plots." at "natele" for the purposes of sale, can used me koldings are security for the advances applied for, and title is shown, the advances are made by the Estates Commissioners, and the holdings are vested in the

32983. Lody Evznaro,-Here is the list of allotments states, Loty greaters.—Lets is its part accommon mode by the Brishes Communicaces to Treates under Section 4 of the Irish Lund Act, 1908, of parcels of unteranted lend for the purposes of pasturage of cows of acrivalitural labourers and others:—

County.		Townland.		Ares.	Porchase Money.	
Galway		Bingeeleun	_	40e. 2r. 86p.	A 200	
Limerick	-	Gerage Lengthyrr Patrickswell Do. Camuse Moorestown Lexistagenecty *Carriera		68s. 0r. 25p. 14s. 2r. 87p. 8s. 0r. 11y. 5s. 2r. 50p. 5ss. 1r. 24p. 8la. 0r. 0p. 24s. 8r. 85p. 20p. (r. 0p.	1,147 422 54 1,055 900 136 425	

[&]quot; In these cases the Bursl District Council are the Trusters (Scotion 19 of the Irish Land Act, 1909).

County.		Townlead.	Ares.	Porchase Money.
Mesth	-	Thomastown Galmoystown Johnstown *Deorpsek Bellany	18a. 0c. 50p. 18a. 5c. 50p. 18a. 1c. 0p. 18a. 1r. 10p. 11a. 0r. 30p.	466 877 415 1,005 808
Возесттви	-	*Termon Cioneloryi Cioneshi	49s. Or. 35p. 15a. Or. 4p. 15a. 2r. 0p.	1,900
Westmeath	***	Addition Macestown Battstown Killelagh *Knockdowney *Killemboylegan *Baltyrode	22a, 6r. 10p. 65a, 0r. 16p. 7s. 0r. 26p. 11s. 3r. 20p. 28a, 2r. 12p. 8a, 1r. 26p. 11b. 3r. 0p.	806 830 304 869 861 399

* In these cases the Royal District Council sea the Touston (Section 16 of Teleb Land Act. 1986).

I see in this list that there are only five plots that the Rural District Councils have taken advantage of. I take it the others are all pureds plots—That is no. 32884. I see there is one in Decreasit in Mesth?—

Yes. 32885. It seems to me high as regards price compared with the rest of thorn. In that the Kells Rural District Council?—Yes. Mr. Caraphell, the inspector who deals with the selector, as in the room, and, peckage, if you addressed your inquiries as regards itse particular plot hizz he woold be able to give you more direct 17586. Mr., Wrason.—You made it quite clear to us that the Batatea Commissioners have no power in Class I, mentioned in your statement, to come at and

Close 1, more/sized in your statement, to come on and interferce—dash to scheme in our said offy polony is in-structured to you at all—This is so. 16699. Do you see any precious difficulty where on 16699. Do you see any precious difficulty where on the property of the contract of the contract of the con-traction of the contract of the contract of the con-diffrastly of superconstate to be part to the tennar for his interest in the plais proposed to be taken. Secondly, there would be the quantion of this. Before you ask bund over to the breaken the core-plots on a tentrical healing you would have to investigate the tensity it life. and in many cases the tenant's title is an difficult to

and in thirty cases the british within it an amount to investigate as the tandiord's. 23888, Mr., Warson.—Would not the fact that the land. was being vested in the occupying tenant be ines facto sufficient to qualify a man in the ownership in order to not commensation if a section of his land was taken for cow migis?-Terrarried land in subfret to two intereststhe inndiced's interest, that is the fee-simple, and the tenant's interest. It is the fin-simple interest that is sold and invertered under the Land Perchase Acts to the tenant, and that interest when vested in the tenant bécomes a graft on to his temant's interest, and before the Estates Commissioners could sell to another body any portion of that holding they would have to investigate the tenant's title, which in the course of the Land Perchase proceedings in never investigated.

When a tenust purchases in gets the land vested in
him in free-simple, and he is registered as event, but
him in the simple, which are with or arotter, but
him to receive desirate to nev with or arotter than

he is registered subject to any rights or sortion that may affect the temant's interest at the date of the \$2500. Mr. O'Bener.-That is the iniquitous thing-SESSED, Mr. D'HEIRS,—Thait is the insquances temp. It is producing a led of trouble?—The Ristone of Limitations, of course, comes in, and under the recent ratus of the Land Registry is in provided that, where treater two-law range have claused since a transfer for veluable. dien has taken place, the rote on the Register, to the effect that the registration is "uniper to rights and equities," is automatically discharged, the pre-sumption, I secure, heing that the present who paid over his money took own to see that the title was

good, and who were aboundessees.

12390. Is it not a fact that the Land Commissi when settling relate go into the question of the tenant's interest?—Not as to title.

Simpl. Mr. Wilson.—If you are able to vest the fee-simple of the lood, which is a valuable considera-tion, is an individual tensor, I am not quite clear why you should not be able to save lam the other. why you should not be able to give aim too wanted valuable consideration, namely, compression money for a cove-plot if a cove-plot was considered desirable for a core-piok if a core-piok was consistent destribule?—The Corressioners can call up here as mustry to the land for within they consider the land to be according to the land to report to the land to report to the land to report tall, it would not be according to such that land to report tall. It would not be according to each land to report tall. It would not be according to each land to report tall. It would not be according to each land to report tall. It would not be according to such land to report tall. It would not be according to such land to report tall the land to report tall the land to the land to report tall the land to the land to the land to the land tall the lan

Mr. Jose T. Dereyas .- 14th

52994. Mr. O'Britte,---When does the tensor become ourse. our. O'sours...-When does the tenumb become real owner—as soon as all the attentiates are paid off and no sconer?—He is owner in for-simple from the date of vesting the land in him, but it is vested in him solves to an anticiply which runs for 684 years. which appoint is similar to an ordinary charge. echape, that the Commissioners have ds for realising it if it is not read. \$5505. And if there is a plan of canepaign throughout the country?—The amoitles have been remarkably

well paid by the porchasing tenants.

(3998, What do the Commissioners mean by
"untenanted land"?—Land that is not subject to any tonancy.

10897. Lady Rvenum.—Gracing ranchest—Yes.

2098. The Charman.—Lands which are not in the

ecopation of an ecopyring tenant at the messent?-22800, Mr. O'Bents.-Would you equalder land street, Mr. O'Helle, Would you exclude him noticemeted that is held, say, by a village publican or grozer who owen a farm outside his village, and owen another one three or four miles away, on which he just puts satile to grace, knowing nothing at all about it?— That would not be unbecaused land.

hat would not be unteranted and.

35900. Why is that not unteranted land, became she herd cannow he said to be occupying it. The herd is not occupying the head, and he man himself her not a brease on the into a still—Unitorated and, for the contract of the contract of the contract has compared as no overer which is not subject to any extract of the compared of the compared of the law compared on the contract of the compared of the man right not his in physical occupation, but he her man right not his in physical occupation, but he are the contract of th the herd connect he said to be occupying it.

somboen man owns a farm in that som of way, it is considered untensited land.

The Counterer.-- It is not necessary that you should own a replichouse in a village to obtain a tenancy in the land. is land.

Mr. O'Banne,-I know that there is a whole Mr. O'Eszen.-I know that there is a whote district from my risce at Ardash to Askraton where

2 B

Mr. Jone T. Danssan,-14th December, 1912. there are handreds of scree of land award by different

there are hancement of acres of ifful course my dimercus people. There is a doctor living dayn in Revensite, or somewhere beyond there, and a heather of his loss a facut code me. He does not break the lead on all. These day a few compless—farms that have come in thereigh meritage and that seri of thing, and the majority of them have belonged to the people for a considerable time, but for all intents and proposes they we intronuted incd. The Estates Commendators carried acquire these?—They can be acquired volun-

carrot acquire these—Tayy can be acquired when-tartly, and in some cases occupiently.

3390. For the purpose of acquising them com-plicatly you mould have to got searchedy to requirest that he or he grandfuller has here evisited from a particular position of the form—In addition to acquiring into compulsarily for writted parache, it is possible to acquirie lands compulsarily for the which of possible to acquirie lands compulsately for the which of

congestion.

28105. The Churrant.—Would the necessity of a complete by a purpose for which the Commissioners would feel justified in acquiring had compelently? enestion has not arrived. 13395. If there was a scheme administrated for dealing with its milk difficulty in that district to which Mr. O'Brace has refurred, and if these lands are in the

occupations be described, not subject to any occupations information by the described of the control of their present occupants, notal the Commissions their it can of the purposes for which land should be sequented comprisently to provide convigious to that district?— Well, that case has not been considered.

2500. I quite behave it has not, but it arises out of what we have been discouning to Yes. 32906. I quite recognise that it is unfair to ask you to give an opinion in a case of that kind, where there os give an opinion in a sale of that lend, where the is no precisent governing M. So for as you see, M not absolutely outside the range of possibility to—Ko. 2007. That is quite as for as we can go?—Les. 2003. Mr. O'Brans.—You kave the power

cannot hat O'hamin.—You have the power of migrating people to relieve compession?—Less. 38909. In that your housess or the humans of the Congested Districts Board?—The Essents Cournits. Stores do a great deal of migration. Migrating is a form that it sometimes not quite understood. Popule term that is sometimes not quite uniformisch. Propile thin it is tabling a men from one country to unother. This we do, but we sho carry on a system of migration and the state of the country of the property of the country as estate where portions of the tremoted head in congressed, in that case we take not one of the terminal and give him a new helding on unforcested bend, and his previous balding is divided up finto entragements for the small baldiers in the flatterist.

20010. Does the farmer who gives up his helding get accordantion for disturbance?—We give him conpentation in this way-we give him a good holding and him a house. Similed him is goorse.

32941. Cris you migrate people from another part of
the recenty on to that so-called unforested hard I have

the recently on to that so-called undersented hard I have been apositing off—Tes. 3291k. And you could acquire it comprisedly for that purpose?—The two purposes for which the Commissioners on acquire hard comprisedly see, the reknatetement of swinted tenants, and to migrate tenants

or colarge their existing holdings. 32918. Lady Evenum.-For the relief of concretion? 32014. Mr. O'Barny,-The whole chiect is to try to

get each tenant on what is called an economic bolding? 251. S3915. And, thurefore, if you find up in the hills towards Herry, or summwhere there helicen Limenich and Kerry, a number of small holders, you can take

and Kerry, a number of great holders, year can take them down and got them on to 968 untermined land?— We can. What we do, where possible, is to take a strong furners—uses not in the corresponds of an enconomic boding at all, but of a poor hig boding, we give him we good a boding as he had, if not a latter one than he had, and we distribute the old from arranged the smaller may.

3916. St Stewart Woonspan.—That is a relustry agreement. The strong mass careed be put not con-pulsorily—The Commissioners have no power to do

that, 20017. Mr. O'Banne.—Further on in your prices of evidence you may, "The provisions which enable the Petalate Commandances to provide 'row-plots' we those comprised in Scotion 6 of the Act of 1996, and Scotion 18 of the Act of 1996, and Scotion 18 of the Act of 1997. Three Scotions previse that advances may be made to trustees, i.e., (a) private Printed image digitised by the University of Southampton Library Digitisation Unit

individuals approach by the Estates Commission (b) the Department of Agriculture and Correty and Breal District Councils, for the gurposs fifter also of pusherage, and such tristees shall hold the land sobject to a satisface for the sucre thereof." And the Estaton by down conditions about the use to which such lead in to be put and the position?—Thous conditions are emisdied to a selectio—tho astema-relating to the lends at Odosette, of which Father Rays

this selecte from Father Barry blanch, and we are very gird to have an noticel copy of the tchame under it have been possible for the Communitories, when giving the band to the fifty or staty people, to state that they chould keep on each allotment a relationer

of one or two adults over, or whatever the seminer and the two adults over, or whatever the seminer and the type of the rate of milk to the fine purpose of the rate of milk to the fine the two-loop where land is, as as the case of Atherer, sold in tecanonic to the about the Compositioners have no power to direct how the Compositioners have no power to direct how the to to be used. not to to or used. SECON. That land was thrown in by the goodwill of

the Estates Commissioners to comble the town iconeta to purchase thely town heldings?—Yes, Olivia. You have no power under your existing Acts to sell villages only in exceptional cases?—The Commisamators of their advance is generally lower than one content that the owner of the house recyline, and that difference would have to be lodged to cosh, and that is a startifling-block as regunds the sale of holdings in in a terrobbing-block as repeate the sake of heidings in a terrobbing-block as repeated the sake of heidings in congresses of things, suches the occupient in the new body and the sake of the sake of

that, if he sub-lets or sub-divides it, the Communications have statutory powers to put the building up for sale. \$2923. You say, "I see not wegge of any other statuters rovinous combling the local authority or other boiler to sequice lead compaisedly or by agreement for own-plets. Would they not have the power under the Labourers Acovi—Well, under the Indecemen Acts they can acquire a plot of ground not exceeding an acre, and that is do be noted for the purposes of the Labourers

Acts, namely, as an appendenance to the outage, and, of course, if could be used as a corrupted. I should imagine, though, the acre would be too small.

88926 G. In there not some provision that these picts

see to be tilled?

The Chatmara.—That is a condition imposed by the local authority. There is nothing attailory in Chatmara and the condition of the condition

ton screet.—Tee, that is no.
32907. And ben acres would carry enough oows to
supply more milk than the labourers at present can
do?—That is no. Of course, the Land Communion do
rost salministics the Labourers Agis. That is a matter not admittates the Laboreum Acts. That is a matter for the Local Geventment Boord. 2020s. When you say, "I am not seven of any other statutory servician resulting the level authority or other statutory servician resulting the level authority or object holdes to acquire land computationly or by agreement for 'convigicia," door that mean heat you have not got arretting to do with the Laboreum Acts—I means the servician of the with the Laboreum Acts—I means

sit to be a process stelement. under the Labourers Acis to sequire land compalsorily and group the cottages together !- I don't know, and group too countrie together?—I can't know, perhaps, enough about the Labourers Acts to definitely answer that question, but I always understood that each plot was to be separate.

street. The CHARRACH.—They don't hold them in common or varidale. Mr. O'Brans.—Can you acquire land as a communage for these tan authors?

* Printed in Appendix E, page 196.

The Champion-lit is not at The Challenge,—so so not at an possible.
There is no such statistory power.—Sefere I made
the statement which Mr. O'Erien has outed. I made the statement whose me, or meet any operator, a many inquisies as to whether there were any other constituents under the Public Health Act or otherwise that would enable a local authority to acquire itsel, so that I

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That is so.

mucht make a suggestion to your Commission, but I becu urable to escerta'u say cuartment but the One I have gluous platement is quite correct. So for as I know, there is no power sendered on any authority for the purpose of vesting lead or dividing had except what is conferred on your Commissioners.

and on the Congerted Districts Board?—Yes, 52932. Italy Evrisim.—I have seen in that scheme of Feiler Berry's that there is no right to till the lead. It must be kept in pasture?—The Act of Parliment ways it is for the surpose of pasturege, 3993). Pasturege would include hay?—I don't think

SSEQU. Pasturence would unchase hap?—I own't strink it would include meadersing.

SSEQU'AL I shought in County Menrick was heard of one pick which had been got there, and they were not shie to got autiliated course by you on it?—I am womes of one allocatest in County Limerick where the beal

one autometer in Contry Learnerick where the Issal surbority has not solvenified a salarare, not the Bastice Commissioners have miked them to mome a day on which it would be netwerned for them to lead lanck the Isral by the Commissioners.

32033. This was I am referring to is in working order, jet they could not get enough of the right chass.

jet they couls not greenough of the right case. The Christons—The tunier was the grettlenan sho was before an, and he told as that as they did sho was before an, and he told as that as they did to the property of the time greaters in the didated to the property of the time of the told as tensions had put easilie on the land as order to pay the gentlane amongs. They did this to prevent the load gridge deceiled and to rake morary to disabange for studies?—The is when languaged in this para-

32006. There was nothing to suggest that there was a minuse of the plot. This graticum n is was countred before to was need auxiliars to utilize the land

counierd herice to was meet annions to utilize the large for the purpose for which it was given "—by recollection is that the scheme to which you refer prouted, that in the event of this labourers and raiking applications to the purpose of the labourers are raiking applications to other purpose at the preculting raile for grassing, and its other purpose at the preculting raile for grassing, and that any angular abst would accrose to the transport core and above the assumity popular to the Lund Commission, should go to a found for improving the and or independental themselves from loss. 2007. So far as I lazare, in that particular histonic every offers was made for the purpose of deveting the land to the purpose for which it was reserved, and one can well understand that while for

a year or two it might not be possible to get people with sufficient expital to perchase cown to gram on that hand, elecumetances may arise that would after the

Mr. Davin Posteries, M.R.C.V.S., examined. 22945. The CHARRISAN.-We know, Mr. Prestice, that

weens, the CHRISTAN, "We know, Mr. Frestice, that you are a peculiality violations; surgeon, and that you we of present engaged in one of the leading positions is connection with the Veterlany Bounds of the Depart-Stead of Agricalities P. Vos. 52545. I am aware that your responsibilities as Superintending Transit Impressor in the Vetermary Branch of the Department are very wide and very

\$2047. You know that the main purpose for which this Commission has been appointed is to inquire into an sileged abortage of milk in certain districts and the cuses responsible therefor. With that branch of our cause responsible therefor. With that broats of our alreity we not an attention you are there is the color and are alreity we can be storied you. We there is the color question which comes within one sphere, and that it was not a distillar to the control of the distances or which we would not the control of the distances or which the ire stock are uniquet. One of these is schemelois. If you have any reas on their particular question with you think would be beliefly to this Commission in your witness of a Might F any that once then age they we done to all Angle I say that once them age the fast. Department of April 1000, we obsert the limit.

on Order dealing with the question of tolerations, in to far as it referred to cattle which were constituted

from inhaveralogie, or which showed indications of what

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This is no. (2008. Mr. Winson, —Prom your knowledge of the 2008. Mr. Winson, —Prom your knowledge of the 2008. Mr. Winson — Recommissions in yielders, it is not the property of the property suggestion to unde?...Pechaga so, 33941. I don't think we could aim at securing a

francial position of people, and the treatees may be afterweads consided to find sufficient co-operators to

have the original intentions Eterelly parried out?...

Sided. I don't think we could nim at securing a stefarint quantity of fixed that wood gow rooks and other occus to keep up a winter supply. I think we should be gratified indeed if we supply. I think we should be gratified indeed if we supply. I think we that the bishousers in certain district, who may be able to previous every, might find viscous to pusture there. For my part, a on quite satisfied that you have made in survival. nade is perfectly siens to this Commission that your

with regard to this perticular week, and where local desire is manifested to have land reserved for this per-tection purpose you offer every facility for that bring approxe.

\$2042. You must have regard to the other obligations that we are bound to discharge 5—Yes.

\$2040. I have practical knowledge that within the past affect. I have protected instriction that we make the part of the protection of the protection of the part of the

00444. So like as a sen concerned, a three you make node the position of your Commissioners absolutely feet. You are good strongly to being with you can of

elect. Tots are good enough to bring with you can of the Contentiations: Inspectors to give us say further information that may be desired; too! I think you have made the positions perfectly plain, so for as I am con-ourned, and I don't within we need torothe him. I feel we have got a clear and explain expension from you as to what is the priviley of the Estates Commissioners as to what is the priviley of the Sature Commissioners are regardle this particular sourch—Chandy Jop. Mr.

may be represent as triberculosts of the noise. The English Board had their Order desired; so had the Irish Department. The Order woods have cast a responsi-bility on the local sortborities to strughter armsal which the vectorizary impactices of the local surfacility under the Diseases of Arimats Acts considered were affected with teherquises of the udder or with general emeriation as a people of toberquises. I cannot so into canasatana as a sessit of tolerentosas. I sentos jo into this question of what has delayed than Ocein, but still it is quite apparent their it is not defined. Thus the lit is quite apparent their it is not defined. Thus the Decease previous of the contractions Prevention Act, 1266, which subhedies there to appoint veteriousy or-gous, which, I may say, ore parafically independent of the local impetence water the Disease of Animals Act. The Local Covernment Seal education with my Department when these gentlemen were being appointed

Department when these profession were being appointed to like office—that is the position of virturing tappeter traffer the Poblic Houlth Acts, and at that time as armagement wis. I may say, in progress with regard to giving the Department to war, it progress with require to giving the Department to war, inspection a kind of syspervision over the work of the Local Government Decel Inspection. They are known as referently impression. neares inspected. They are anown as venerally inspec-tors under the Sanitary Veterinary Officers' Order, I think. That arrangement with the Louis Government Board never come to very much, and I don't think it

would work very well in the absence of proper authority

Nr. Davin Provence.—14th December, 1915.

so the Dryastment's trappetors from the Local Government Rown!. It would east, after oil, be a satisfactory among the best the officer of my Department attempting to best the officer of my Department they had no content. The Local Government Rowd have inspectors spectful marker the Smittery Vestriony Officers' Onlier, and the Department does not interfere with them.

1804. De yes think, Mr. Preuthee, fast it is humming position to have eliminated by the work and shaholine uniformity and occedination of the work of the property of the property of the work of the Lond Governous Board and I crossler is switch the control of the Department of Agrandment—Magka I. Department were done of the property of the property as intentia of friedon between the two boldes, but sigcontrol of the property of the longest engineering of the property of the entire through the property of the property of the entire through the property of the property of the entire through the property of the prope

or this Board is not responsible. You must, bo my audid, have an arrangment by which one Board will be responsible for dissour in since it is sufficient to the proposition of the properties of

2016 When they are appointed?—Xes, into the case of voluntary importers under the Disease of Animals Act, they are appointed by the Courty Council and the Cou

mony of the local lockes have only appointed observed in summals selection, and that it is prefixed written in summals selection, and that it is prefixed writteness. At the local l

would not like to throw any reduction on the cateling effects of local qualification; in local part of most, three is northing further from my much, but I do fast that a many when the case of a range who have used to expose affects of a range who have used the exposentiality. SECCI. Of comme, it is also showed for suggest that a speciment of a professional mean as a validate of databate its which doiny farming, it certain our many that the work caused to efficiency databate its which doiny farming, it certain our many that that work caused to efficiently denote—As long

pose mines, as it has no to space, it cold annotation, and \$100.51. It can belong of the commerciate the neutrinosis. \$200.51. It can belong in the cold annotation to the contract \$200.51. It can belong in the cold annotation to the cold annotation of \$200.51. It can be supported in the cold annotation of the cold a

dras man, one, has they have gradually failure of a current shifts that he mother of thebreake cross usgarded to an under that Onle at all approach the ball is middle-tild. The coveres of understand who had reported these cover is first section to have throught lengtuce and they reported the more frequently due they do now. Lim told prepared to say in how many occus somverall severe at the Onle count to the total undertwell severe at the Onle count in the total undervelopment of the Onle count in the total undertwell severe at the Onle count in the total undertwell severe at the office of the Onle count in the Limit the Onle count in the total under-

come us estatione.

10903. Mr. Witson,—I think us would be all inclined to agon with you those?—Xea.

SSOG. Lady D'unaxon.—Under the Local Georements Beard General Orige, postupped, fell, it is stated that Beard General Orige, postupped, fell, it is stated that the vestificative verspect as required to report cases of total postuperated of Applications. In every case where I warped to the postuperate of Applications. In every case where a vergoes who were entantical selecte us, they had cover lead of 181—Might I any that the classes was put tobe that Order at the suggestion of my our Department, or with a view of giving the Department as abin of where the control of the control of the control of the control or view of giving the Department as abin of where the control of the control of the control of the control or view of giving the Department as abin of where the control of the control of the control of the control or view of giving the Department as abin of where the control of the co

SOUTH The CRISTANS,—And then you have the disalwardage of doal costeal, because the velocitary officer knows that his speciations, which he halds under the horse that his speciations, which he halds under the Local Government Board wither that by the Department of Agriculture, and says, "I don't recognize any outside rethority"—Yes. I cannot use how is worth week yith suitshelline. How outh you control any

were the production of the pro

detimental.

82303. Mr. O'Bunn.—What would your suggestion
be. If you were King of Induct how would you
sensuge it?—I don't know. I am afraid you are giving
me a big celer.

2000). The CRAMMAN—I take it there is one point on which we have a definite operation of opinion from you, and it is thus, that it is certainly not need to the large and the large of the definition of the delice integrated upon the resolution of the delice integrated upon resolution under the various Area to these who may had position under the various Area to the cost and of extent at 100 he repossible to each of the cost and of extent at 100 he repossible to each of the cost and extended the cost and continued to the cost and governed by another anthority—I tigee.

authority"—I ugree.
2000. Co-ordination of some kind is necessary in order to secure efficient administration?—I believe so. 2000. Co-order have experience of one side that the administration. I only wrater to man side that the administration. I only wrater to man side that the man power knowledge of the side of the efficient of that comes weaker your purrous, extension the feeling that it would be destroyed by a propule coordination.—I

toxxxx. Lady Evrauen.—We have last evidence in wome peth of Jesiand that ditty por seas, of the cores were self-ring from thateroids. We have held the most starding evidence all over Leriand ou that petro? —I starting you'd he very band to come form to m absorbe Agent. 2206. The Communic.—Do you believe that the

3246. The CREMENS.—Do you believe that the tolerredin test in a fairly reliable one?—It is certainly the best dest we have.

82995. And speaking generally, the member of cases in which it would give unstallated any or delative results would be compensively small.—Tats, and I

Mr. David Parsucce.-14th December, 1912

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may remark, even where you have resoun from tuber may remain, even where you may reason from under-calin, you might derively the animal, and make on ex-azinetico afterwards and find no tences of tuberou-logis, but the discose may all the time be in some gland which you did not examine. The test has been conwhich you did not examine. The test has been our-demand become, on post-merters examination, tuber-culous is not found; this is possibly due to the fact that a sufficiently minute exemination of the parones in

22967. Mr. Witson.—Tou have clearly stated your origing that so columnion of work as between the various wetermeny officers throughout the country is wented, and you made it equally plain that you agreed that local officers at the present time under the Poblic Realth Anta could not carry out their work properly at the present rate of payment and under present conditions. Follows or appeared of the suggestion I made a while ago, o

the retrinary across being measured by a combined consultee, what alternative is there. World you controllère, what alternative is those. Would you approve de un independent Votontiany Econd, and make it, as it wore, a State Veterinary Serment—No. I hold the curvation of bulecoulosis as a disease in a matter to be death with by the Depertment. gratier to be dealy with by the Department. 22606. Lody Frances.—Would you recommend that inherenless the made a notificable disease—H is a notificable disease at the moment, both to further action is taken. As I mentioned at the start, the Department had an Order derifiet, and so had the English Board. The English Board controls the quan-tion of aurenia in Gress Scholles, and the Department

32009. The Cramman.—And the English Bourd very largely in Irritand slao?—Our Order was the same as the English Order. At present there is a Ball again going before Perliament. In its memoresolven is but this provision: "The Board of Agriculture and Polyeries propose to same an Order under the Diseases of Autrosis

propose to surce an Order under the Diseases of Androise, for 1984, design with tuberculers overs, and only the control of the control of the control of the staughter by the the lood authority. The Tressure, to satisface the payment from the Enobsepor of half of the control of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of to bruners to report animals, and until they know that they will not smarin a loss by doing so

\$5970. That is the view that has been driven home to the minds of most members of the Commission by the exposeration of opinion promoters us use consistence of the exposeration of opinion gives before us, and unless some means is devised of indusing the owners to give neithbooks on the earliest possible moments, no matter how strict the supervision may be, it will be impossible to observation securably where the design arises small produce the contract of the co is too late?—I believe that to be the case.

\$2571. Lady Evenan .-- It has also been pointed out SBW1. Lang NYBRATA.—It me has been permed one to us that it would be a great availablance to this improduct, even under the present conditions, if he wave in a position to say, "I cannot help reporting you, because the improduct will occur down, and he will be down on me if I don't do my week properly".

There is no question that supervision over a man is a

great adventage.

32972 The CRAMMON.—You have already doubt with that question, because you have pointed out that unless the velocitary haspecter is made independent be cannot do effecting work!—Yes.

S0973, Lady Evrasan.—The Bill from which you read the Claim has not got the first reading?—Thus is Mr. Burn's Bill, and it only refers to England. The crupted druft of the Order, which was perpend by the English Board ton years ago, had reference to con-pensation solely out of the local rates. 15574. The CRAMMAN,-And no contribution from the

neare. In CHARMAN—And no communition from the Tractory?—At that time, none; but we found in deal-ing with planno-paraments, that local authorities are unwriting to alonghier, simply houses they are ununwilling to swilling to pay.

\$2975. And unless the State makes a contribution you cannot hope to have the matter dealt with from a national point of view?—No. 50974. Mr. O'Berns.—Los think the fact of the State paying half would be a sufficient contribution?— The old question of half a leaf course in. Our constitute in feeling with diseases in solmests in the

If you want another you must give a man the proper market value for his azimal if you destroy it, and our experience side is, where they compression so any large extent has to be outletted locally—as it were, from the princept—you find one body noting one way and another body taking quite an opposite point of

\$2077. No uniformity?—No. Take the case again of plants-presenteds. I don't believe if we had been vericing under the old plan of compensation by local

bodies we would have been done with it now. \$2978. Mr. Wristes.—Hers, for example, in the Milk and Deares Bill—Chause 2, Section 1, is is stated—"The Medical Officer of Health for any Sanitary district shall have power at all renegrable hours to server may there in the relation the districts and imposed the darry and the preson completed therein, and, if a secondaried by a relectionary inspector or some other property confided verticatory inspects to impose the cattle therein."—Hight I sake why the medical officer is and it referred to in their occurations.

as a many returns to in some conscious."

SEGFO. I have such the least biles. It is not only an Indigately upon the veterinary posimizate, that is Include the veterinary extended the property of the veterinary extended to the least degree. The veterinary surpose goes to inspect shells, and at the same is it not estimate to advise or even examine the whate of the entitle Thos has to be done by the either Deportune.

The Chamman -It is perfectly should. It is neither someony now efficiency !-- I don't think it is efficiency.

22000. Mr. Wmoon.-You have not thenebt out a scheme?—No, I don't suggest a seleme. 1998s. With regard to these 392 cous that you told

us of, I think you stated that in only five or an ease was compensation paid!—Only in a very small number of crases, and those, I think, were deals with in the 53082. By that at any rate one knows from what

yes here told us that these animals were in the corner, they were visibly and climically wong; they were directive to the public batch and to the minush next to them to the seawholes, and they wind on contributing their share of disease—Yes; amou of them were simplificated by the owner's themselves, in the expectation that they were going to get paid them. Tany job a rode availability, and they did not do to the next time.

32000. Six Servany Woossons.—They were all simpliced—them 523 count.—Oh, no. \$5964 Mr. Winson.—So that these dangerous azimals that you were able to discover by a simple method of netficients were not eliminated from the utility supply, by reason of the fact that your sutherity were toy to a position to offer purper compensation—to be fee as we were concerned; they were only notified

02965. If tubercaloris were made a scheduled discuse under the Contegious Discuses Act would it come under your purrous?—Yes.

2000. The Common.—In your opinion the State rouse come in with some constitution if the work is to be efficiently consid on?—Yes. It has been our experience that where the Siste did not come in is was a failure

wise a failure.

ROWI. Lady Evenatra.—You can understeed that it is had for a small lumns who has five or six cows the last the state of the last the saimal resorted is left there

Mr. Wilson.—A premium in put on his remaining in a state of bilardal ignorance. 32366. Sir Strewart Woodsucter.—Supposing

22006. Sir Srevary Woossura.—Gospoole three was no veletinary servise in Endud at all, while why you consider the best form of veletinary servise in Endudon-limited to the service of the

Mr. Davus Penerren.—14th Describer, 1912.
vinces to deal with, yet there is central nonirol when you bring 16 down to hedrock. Although the various provinces of Prince here their rotationsy server.

where to deat with yet there is control control to the yet when you have you have you have you have the restriction of the control provides of Pannae have their restriction where there makes plant control, and there there makes plant control to the control of voterwary important per include to favour the tien of voterwary important per control to a present that with their present salaries from condit. "Yet procedure with the present salaries from condit." "Yet provide a provided by a certain body," "I've in the year of the governed by a certain body," "I've in the year of the governed by a certain body," "I've in the year of the year of the year."

solid, Alla common and instinentic or proceeding and the common and instinentic or proceeding Discovery of Marian Alla, Park and the consecution of the Common and the Comm

1800. The Cramust.—But our incree quite out best any certain attackety convoleting a wiving and which a men in paid cells for desiry work which represents articularly branches in the two tens, could represent the control of the control of the conpresent the control of the con

would be supported in enforcing right abbusium, to their for man in patients steppins on the first little and which for man in patients steppins on the first little and which we have showly relevant, "The Board Green and Nood any to polar require the Coursel of any combine with neighbor such Council in appendixely, for combine with neighbor such Council in appendixely, the presence of little and but Asi, any or are restricted for presence of little Asi, and the presence of the or enforce appetited by the Council index the Discussion of Aminto Act, 1887. "That appears that the Bill Council in the Cou

The Commission than adjourned till the 22rd Decomber.

SIXTY-SECOND DAY,-MONDAY, 253D DECEMBER, 1912.

The Commissioners met at No. 5, Upper Costle Yard, Dublin, to consider some leading questions of the Draft Report.

SIXTY-THIRD TO SEVENTY-SIXTH DAYS.

The Commission at in Dublin on 12th, 17th, and 18th Pebrany; 15th, 16th, 17th, 28rd, 24th, and 31th May; 16th, 30th, and 30th Jute; 1st September and 3rd October, 1913, so consider their Deaft Report.

SEVENTY-SEVENTH DAY .- THURSDAY, 23RD OCTOBER, 1913.

The Commissioners met at No. 5, Upper Carale Yord, Dublin, and signed their Report.

APPENDIX A

Extrace from an Akrocas on the Talson Muse Descripting by Do. A. January. Wood, in the Australian Medical Journal of 2nd February, 1922.

(Referred to in par. 12 of the Final Report of the Commission.)

One of the most important features of the Testitote's work is undeshtely the house-to-bouse visits of the Tolbot nurses. These usress are most emphatic in stating that the general cleanliness of the homes that have been whited in previous seasons is very marked, and that instructions given to one nother see nearly always passed on to unghbouse, so that this adven-seed compalin at the homes of the poster mothers is

stored compaign at the homes of the poorer medium is already beginning to bear good fruit. Nurse Celvert in reviewing her apprisones as a Yalbet mess, says:—Boset.—The hely is offer in a small, also; hask room with all the windows shus in Tablet intels, and a subsequent that it or one in a small, does had been over with all the virtulessy about a small, does had been written as the virtulessy and the state of the state of

Mottles.—The bottles are usually seen half-full of milk lying on the kitchen table with files walking on the test. In many cases this rolls is repeated for on the tent. In many cases this relk is reheated for a second feeding. The long tube bothles are not as extend recuing. Including take topped are not as extend as they were, but many mothers negler them importation.)

Cases are not uncommon where the milk is hested at hed-line, wrapped in fluxed and lept worm in hed for the buby to drink during the night, the mother being too lazy to get up and heat it. Superets Cut.—It is the usual equatom for the mother to take the halp to bed with her to keep it warm. Great difficulty is experienced by the norms in grating the mother to got the child in a separate cot, hashed

or box during the night. Conforter.—This mother usually puts the con-forter into her own mosts hadors putting it into the shely's mosts. It is plained straight of the face and put into the halp's mouth. These conforters are usually disped in honey or suit, file forquistly come to rest on them, dirt and full are frequently seen on teem, and before the nurse's advent they are hardly ever belied. Freding.—The custom is for the mother to feet

Freshing.—The constent is for the mether to food the child avery time it crise; the rulli is heated and the top water for run tries the bettle to cool down the mult. Whe mult is close kept in the bottest part of the house with the reset and butter. Here part of the house with the reset and butter. Here were the common to compressed. Helbers feet Char-balies with once of one hard water has been and grappe in the case of one hard water hard and one without the content of one hard water hard age con-volutions. Williams. —Many mothers are alread that a delly bath will give buly cold. It is eastenen for the lath to be deferred to 3 nm, or later on this account. The bather's solidal mothers are very often never wanted, but dried before the fee. This is all year

washed, but chied before the fee. This is all your injureance, and once the error of such partilers is printed out to them the majority of mathers say, "I might have known that, but I never head is before." There are a few who will never do as they are told. Many of the homes risted by the Tallock was the second from the highest mad have none of the touthy should be highering, and have none of the touthy should be the second that the second of the touthy should be the second to the touth of the porwe said. Mere of the house related by the richles of the first period for the richles where the related with the richles where the related with the richles where the richles we will be related to the richles where the richles we will be related to the richles and and one related to the richles and an additional related to the richles where the richles we will be related to the richles that the richles where the richles we will be related to the richles where the richles we will be related to the richles where the richles we will be related to the richles where the richles where the richles we will be related to the richles where the richles where the richles we will be richles with the richles where the richles will be richles with the richles where the richles will be richles with the richles will be richles with the richles with the richles with the richles will be richles with the richles will be richles with the richles with the richles with the richles will be richles with the richles with

APPENDIX B.

INFANTO' MINE DEPOT, BATTERINA BONCOUN COUNCIL. (See pay, 15 of the Final Benort of the Communion).

Information supplied by Dr. G. Quin Lemmane, F.R.C.S., L.R.C.P., D.P.H., Medical Officer of Health. (I). Apparetus.

BATTERSEA BOROUGH COUNCIL. DESCRIPT MICK DEPORT (1). Erioblishment.

The Depot was established in June, 1802, as the outcome of an napulary by the Health Committee of the Council into the question of Infantile Mortality, the rate of which had been for the past six years as

1898 176 1809 161 1997 181 1900 150 165 1901 160 , also in a main thoroughfare in one of the poccess parts of the burough was taken and fitted up with muchinery and application and standination of mulk at an initial cost of about 4560.

The machinery consists of a sterillest with a cap-The mactanery common or a sterumer won a cope-city for 650 betsies, a boiler, cooling tank, an electro-moter bottle electrony superstes, successful bottle moter bottle clearang apparetes, automatic bottle

are given in the annexed list. (8). Stoff recologed at Dryot. +Manageress

... 2 10 0 ner week 1 Assistant ... _ 1 4 0 do 3 Assistants 1 1 0 ŝο. .. 0 13 6 (4). Prepareties of Milk.

A c. d.

The milk to supplied under contenct as regards post and quality, and on being received daily is stored in † With rooms, coals, gas and electric light.

an ice safe until ready for modification. It is modified into there usintures, eartable to the requirements of the various ages of the children :-

(e) Two parts water, one part milk, with a little cream, sugar and salt in suctable propor-Lectore is used for very young akilden.

(b) Equal peris milk and water, with gream, sugar and salk. (e) Two parts sailly, one part water, with cream,

sugge and salt. The procedure in propering the milk is as follows:-The milk is strained, then are filled from the natrot filless to nevert handling Each botile receives articient for one feed only. Lettles are then suppored down, pisced in the steriblock, and subjected to aftern etarlimation for twenty block, and subjected to aftern etarlimation for twenty misses. After this, they are placed in the cooling these until Enlyward to the distributing stations, of which there are two in addition to the central denot. Those three stations being the milk within compara-tively easy reach of the initalizants of such of the three registration sub-districts into which the horough is divided. A sufficient supply in handed to each out-

besket

Somer to last 24 hours, the regulatte number of bottless-each containing one ment-being placed in a wire (6). Charges. Per Weck Up to six months ... 1/6 Six to terrire manths 3/-Over twelve months 2/0

(t). Management,

The primary chices of the institution is to supply The primery cupoes of one mentioned as to supply mile to weakly cultives whose mothers, from some physical defect or other saturfactory cause, are unable to name their children. Precontions are adopted to secure this object, the milk hring supplied to appli-oants only on the recommendation of a medical practi-tions. A card containing instructions as to the use

of the milk is handed to each applicant at the time of registration. After the applicant is registered, a visit is need to the home by the Lody Health Visitor, and instruction is given as to the proper facility, clothing and tending of the skild, attention also being directed to the remedying of any insuritary conditions which may be found to exist in the bross. The family his-tory of the child is ascertained, and the mother is invited to bring the child requisely every week or forteight to the resigning-room, which time emplose a more ashistatory supervising to be exercised over the

children and their progress to be noted. (7). Sintistics Cost of Maintenance: 1904-5, 4587; 1905-6, 4500: Cose of Maintenance: 1004-5, 2507; 1963-6, 2509; 1903-7, 2463. Average number of dellières fed:—per year, 850; per day, 250.

	DEATE	BARTS.	
Year.	Occarral. per 1,000 pop.	Infantile- per 1,000 births.	Depot. per 1,000,
1961	16.0	168	_
1902	15.0	156	_
1968	14.2	155	-
1904	14.4	347	_
1966	14.4	131	105.7
1966	13.2	125	77.4

As regards the results of this attempt to lower the rate of infantile meetality in the borough, the above figures will be found interesting. The elasticine for the children fed on the Coupoil's milk are the more see consisted fiel on the Coupol's fulls are the mirro striking when is in remarked that they do not con-stitute a mornal population, many of them being more or less seriously ill commonsting the milk. Since the year in which the Depot was established the rate of infamilies marketly has should'y declared, with the bas stendily dealised, with the exemption of the year 1904, when, owing to unfavourexchaption of the year 1904, when, earling to unfavour-able meteocological conditions, there was a high land-dence of infusible distribute. It is only reasonable to manner that part of this decline must be attributed to

,	PPABAT	US.					
					£	4.	d.
Steatiser (ourseller Bottle washin	city 650	bottles)		Dairy Supply Co., Museum Street, W.C Verity and Co., London	 65	0	0
Bottle filler						10	Û
Bottle filler					2	۰	0
Bolties				Vipan and Headly, Leicester	4	20	
Storoure	***	***	***	Bestow and Co., Mexhousegle (per gross)		11	
Washers	141	***		Duke, Waring and Co., Wardour Street, W. (per gross)		8	
	.00				ě	6	ň
Beaketa (9 b						18	ŏ
Beekste (6 bo					ŏ	10	ő
Bottle washin							
Bedracorator					0	5	0
Bother				L. de Wystenbach, 38 Terrington Square, W.	42	0	
Coaling Tank	***	-			28		0
Thermometers					9		0
Peate	(0)			T. A. Reynolds and Co., 120 Chriscowell Boad, E.C. (es			0
Churns, etc.			***	Ingram and Sone, Hariney Wick (per gross)			- 6
			411	Vipan and Headley, Lolcester			
Straince (Ula		10.7					0
Pattering mind					â	ŝ	o.
Lacioro						15	0
Cestor Sugar						19	6
Yee				United Carlo Gatil, Stophenson and Sinters, Limited (per t	 		
Mills	111			Contract (per railon)		6	8
Creats.							11

the Milk Depot.

APPENDIX O.

CREAMINGS AND DEFECTACO DISTAGE.

Statement handed in by Mr. J. L. Smith, Principal Clerk, Local Government Board, Dublin. (See Vol 3 of Evidence, page 169, Question \$2672.)

CREAMERIES AND INFECTIOUS DISEASE.

One phase of the danger arising to public health from milk supply is discrimed of special solice, as the attendant conditions, if not persons to Ireland, are of particular importance in our covertey. Alleston is reads to outbreaks of enteric fover attributable to indected separated milit distributed from a creamony. The characteristic feature of these authreaks consists

enteric fever spead over a wide area of rural disnot, in which the sole correlating electrostance is the connection of the patients with some exempty wither in the relation of milk suppliers or through the con-sumption of separated milk.

suppless of separata mass. There is, of course, nothing in the mechanical apen-tions of a recursery which per se would tend to the prinquisition of infective green. The recursery, by sensor of the return of separated mult to its conformer, morely serves on the vehicle for discontinuing infewhen some the vehicle for disconlinating infer-when some the refective material has been introduced into the supply of milk. This latter result may come about in many ways, through the handling of

talk by an infected person (million, carrier, or crossnery employee), through alroage of selfs to an infected statesphere (e.g., in a sick-ross), or through the use of infected water for eleanning milk-vessels. Sech specific infection might occur on the premises of an individual milk supplier, or in course of collection or distribution or at the creamery itself. But given the introduction of infection into a creamory milk supply, the green pain into firenlation (through the returned the grins pass and currentees (turings we recovered separated infile) over the online area served by the eresonry, and when the intected separated milk is used for directle purposes, then some immains of bousthelds of countery supplies are liable to develop-

the disease sufficiently supposes are table to develop-the disease sufficiently effects upon the releman of infletions contained in the mile gaing to the createry, unless, inside of, the patients happen to be immediately recognised and effectively inclated. In this way, a single case of arteris fever in the bases-hold of a createry support is capable of corgnating hold of a creatnery supplier is capable of originating a widespend opsiscale, and therein, from a public health point of vitw, live the great danger of arctmary

LIST OF OUTBREAKS OF ENTERIC PEVER ATTRIBUTED TO INFECTED SEPARATED MILK FROM CREAMERIES.

2. Dollar		Statisty District.	١	Dispersory Dietri	kt.	Approximate Date.	-	cd seen.	. 1	Observation.
1	1.	Bendan		Baselon		August, 1893	Г	43	٦	See satisfe by Dr. Weigly in
5. Bilman	2.			Castleisland		October, 1963 to May, 1894.		100	1	Includes secondary cases, but Castle- island Constanty main center of
September Sept	8.	Killersey		Molabifis		June, 1994, to Spring,		50		
6. Filtrane		Tipperay	11	Bezaba .		Santanber, 1924		40		Rossafechid Creamery.
6. Silvano . Spilvano . Spilvan	5.					July, 1885				Boundrold Creamity; all cases within a short radius of Chemics; None attacked emper those who mattack of arcarated well.
	e.			Toltarous Dellar	3	October, 1865		290		Early cause diagnosed as Typhus
8 Signifes : Sinder	7.					March, 1896				Mounts Althor Creamery.
1	8.	Kenteek			-3		£	21	3	Liscarroll Creamory.
10. Strikehover Strikehove					- 2		15		,	Communication of Communication
13 Security West Artificial Department of the Security Sec				Mitchelstewn		October, 1895		34		Mitcheletgern Creamory, Closed 1966
25 Kinefack Salejan Sea, 1875 167	11.			Arriagh	1	December, 1896 to		90		Primary case was stater of employed
33. Normal West Perspik and Republish, 1917.	12					June, 1887, to		43		First patient brought home from
14. Kanteri. Newmonth Generality 187 193 2000 1000	13.	Nowcastle West		Foreign and Re-	wd-	September, 1897.		28		- Contract
18. Santan 18 Heris Deputation 18 to 5	14.			Newmarket		September, 1887, to Jaconery, 1898.		20		Decare imported from Nowcastie, Family Ent ettacked crypted wift to Country.
16. Strotteds	15.	Knaturk		Milford				25		
Six. Securation Percept Community Description Percept Community Description Table Description Descrip		Kanturk		_		May, 1898		10		
Cercon		Newcastle		Focuseh		May, 1898				_
10. Elem Sultations Jesus to July, 1800 50 Balleted Conquey. No point of the Ship Sultations State of Sult	38.			Freeagh	٦	Namember 1999	5	12	α	Encourk Consessor
56. Bollysbaucce No. 3 Kinlough Morch, 1999 30 Kinlough Lagran, "Mile stored counterer in simpling and life Schotzer," Com. August, 1999 42 44 Shelvery Com. St. Milectron No. 2 Golden Counter 1999 44 Shelvery No. 2 Golden 1999 45 Shelver 1999 46 Shelver 1999 47 Shelver 1999 48 Shelver		Croces			- 5		n.		5	
26. Biologishwanze No. 3 Kinlough Merch, 1000 20 Kinlough Cremery. 'Mile stored catalogues in sharping and live and liv	19	8380		CHAMY		June to July, 1800		36		Ballanti Crespory. No posteurs
Kildersey Coom August, 1909 48 Nonecus Creamery. 15. Mitchelstown No. 2 Gelbally Occaber, 1909 30 Myra Creamery.			3			Merch, 1900		30	V	Kinkough Creamery. Milk stored by customers in sincping and living
15. Mitchelstown No. 2 Golbally Golden, 1909 20 Myra Creamery.	22.				3	August, 1960	Æ.	39	-3	Naharal Creamery.
	**	Mitcheletown Na			J		10		- 2	Mone Consesser
		Carno	٠	Arra		November, 1660	1	52		Lossett Crescery.

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	Su/lary District.		Disposerry Date	los.	Approximate Date.	Number of Cases.	Olocrations.
24	Neeagh	{	Nowport Silverelass	}	April, 1901	40	Ballinahinch Creamery, Every pattern had asten bread useds with assembled well.
			Gurtora		Septoniber, 1931	25	Outleask crased on temporary
26.	Macrouri		Cloumpyle		December, 1901	18	
	Collan No. 1		Kilmagazay		December, 1991, to January, 1992	16	Consumery aloned 5th Jacobry. No
	Karturk	₹	Newmarket Kaytoek	- }	March to April, 1902.	51	Newmarket Creasery.
	Kuntuck	ď	Neurandet		May to June, 1962	10	Knockscommer Creamery, Lafro- tion imported from preceding out- brook,
30.	Titpensy No. 1				June, 1902	22	Hallytoni Consumy and Branch at Annuauty.
31.	Listywel		Tuckert	- 5	May, 1933	11 1	Turbert Creamory. Two outbreaks.
			Mitchelstown	ા	Nevember, 1963	40 5	,
22.	Mitchelstown No. 1		Children		July, 1663 Nevember, 1968	80	
					Deprendent 100	140	Milk-norries, first potient. Ballin- telliek Creamery temporarily
			Сирриание		July, 1904	26	Copposerore Commery. No peateons ing place.
35.	Tippenury No. 1		-		February to April,	10	me proce
36.	Charlotile		-		Angust, 1906	60	Ballybes Creanery,
37.			Gortin		November, 1935	72	Gramoustic Connersy established 1904. First patient was attracted at Connersy.
58.			Glin		January to May,	41	Pastercone not reed.
30.	Teules		Custimusino		February, 1996	7	
43	Bayle No. 2		Curteen		July, 1906	10	
41.	Manothamilton		Dromahalze		October, 1866 to Audl 1907.	560	Decembelre Oreagery.
42.	Manorkamilton		Manarhandhen		July to October, 1907,	44	_
	Manothamilton	••	Dromahaire		September to Decom-	-	Thirty-six houses. Number of indevelopal mars not securities.
46			Gertin	••	October to Decem- ber, 1907.	13	
45.	Listowi		Torbert			- 1	Posteensing plant not in use.
46.			Manorhamilton		Navember, 1966	73	
47.	Mesochemitton Kunturk	**	Drocealstire.		Dosember, 1905	31	Fifty cases for year.
45.	Taories .	**	Borrisolaigh		March, 1009	16	
3.0.		::		- 2	July, 1999	51	Correbens Consucry.
n	Toberourry	1	Toorserary Coolsery Tobereary	- 1	April to December,	60	Orraclingt Createry suspected.
51.	Erricketter.		Derrygangelly	- 3	January, 1911	16	Derrygonnelly Concears.
58.	Concen		Croom	'n	May, 1911	26	Beroges Greamery. No pasteerising
	Kilmslicek	ö.		- 3			
51	Traine	-{	Ardfert Trains No. 2	}	April, 1912	16	Tohord Creamery. No affolian performation.

Pierr Distribution

It is significant that in the certier years these cut It is significant that in the earlier years these coi-testles were confined to a small number of districts in the Counties of Cork, Krry and Linacist. North No such coursene was noted in any district North No such course the second in any district North of the centre line of Ireland until 1809. Thenselve, word until Mott the higher incidence in scentimen di-tricts northined to be surfaced, sillnoigh Boyle No. 2 and Migh Read Districts (normhied recourse) outleasies

a 1931 and 1909 respectively.
Steen 1966, the larger properties of those nethered
so occurred in neethern districts. has secured in nection districts.

No doubt those features of distribution correspond to the measure of the measure. No doubt these features of distribution corresponse with the growth and development of the corresponse with the growth and development of the con-ended the second of the contract of the con-tract the second of the contract of the North. The first authorization terrorities of the North. The first authorization terrorities of the North. The first authorization terrorities are applied to the first authorization to the contract, the contract of the contract of the contract, the contract of the contract of the contract, and the contract of the Shadele case, but that the theories of the contraction that the contract of the contract of the contract of the the conin the absence of the capacitant. The Bandon confrictle cains had not been appreciated. The Bandon confrictle was existly followed by an extrastve systemic in the Cantrickson Dispressry District of Traice Union. This continues, if a secondary case is included, inside growthest, if a secondary case is included, inside growthest, when we want involving as meny as 700 particular, which is the property of the continues of the conti tically a year, and, involving as meny as 700 patients, constitutes a record in occamory outbreaks, which is

In Castleward there co-existed all the electronismes are calculated to foster the free operation of which are character to trace the free operation of the infective agency of contentanted separated milk. The instrumentable of a consumer in connection with enterio fewer controls was a new idea in applicationary. enteric fever cottecishr was a now idea in replementage, and was not at the time generally appreciated, the initial cause of the outbreek camped observation, or initial cause of the outbreek camped observation, or projected were traveled at home mail to a sufficient projected were traveled at home mail to a sufficient projected when traveled at home possessions of list-accuracy appliers without due possessions of list-accuracy appliers without due possessions of list-accuracy appliers without due to proceedings of list and accuracy appliers without due to proceed the control of the control of list and Money moreover, even when the disease ceans to thous; moreover, even water the manner was anoribed in singureed as exteric fever, its source was anoribed in notative water stought. The opidemic had been in peranguest at easier error, in source was source at politics water supply. The criticate had been in pro-gross for four mornins, before the foots were krought to the notice of the Local Government Board, but in March, 1894, the Board's Medical Impactor, Dr. March, 1894, the Beand's Medical Largeston, Dr. Browns, citize visiting the shistest, pronounced the disease as sates fewer, and pointed to the Contlettum evenuery as the medium of infections. Steps were at coast taken to suspend the operations of this areamenty and successful prosecutives were 'unditated against persons supplying mild rous infected largest. These

persons supplying from ross intested houses. These measures were opicidly followed by a marked reduc-tion in the number of new cases, and although occa-sional cases of a secondary classister kept overpring up for some months, the spinenis medicate of the oci-The cotice history of the Castleisland aplicanie was subsequently reviewed in an exhaustive report by the

never likely to be equalled in this country.

present Medical Communicators of the Local Government Board, then a Medical Emperior, and his summing of conditions may here be quited i.— (1). "Between the 24th October, 1893, and the 39th of May, 1894, over seven hundred cases of senters deem basis out in a rural district, where

50th of May, 1894, over seven hundred cases of extent fever incles out in a raral distinct, where extent fever had sever bedone been epidemia. (2). "The area of the milk cappit to the Castitaland occuracy and the area of the disease are almost co-tentions.

(ij). "The occurrency milk is the only food or liquid common to the whole discussi area, the water supply being removes and from many different source, and separate water sheds.

(6) "Within a very clort time offer the (primary) case: at Keeps, freey both out almost clauditationally inferent points supplied by the creamory stiff, many of the mass being in no way estimated with each other.

(6). "There are many instances in the earlier lostery of the discuss, before the points become so abundant that the training of its cantifications was impossible, showing that where persons used the separated offit from the oreamony, they were attacked, while those not using it samped.

(0). "The people of the imm of Carthéisias!, who are not farmers, and who, as a rule, lad few dealings with the crosswey, except or a remarkable meaner from the disasse: this was especially noticeable in the poorer and most insurance parts of the torm."
The appearance of these outliership in recent pears.

The oppositions of these confineds in next passes in the North Archited is, the docks, an eccentral field of the North Archited is, the docks, an eccentral field was confined, and the six sees of the Owner Confined was confined, until a first room of the Owner Confined was confined, until the six sees of the Owner Confined was confined to the confined with the Confined was confined to the Confined with the Confined was confined wi

trains, been per and herbroad districts. In these discontinuous per per and herbroad districts, and these disserting the per and herbroad districts are desirable, storage in herbroad districts and of substantial rifle, and the sour-roughtition or consumbant of cases of disease. It is resultly to be understood that powerly and consequent last of knowledge offer exceptional facilities for the spread of intertion.

TIME DISTRIBUTION OF ENTERIC FEVER OUTBREAKS RECORDED ON FREVIOUS LIST (Pages 191-192).

Approximate Date of Clases.				Bural Sustany Districts affected				
Japaner				Glio. Engistifica.				
				Timenty No. L. Traice.				
Marek April May Juza July		- 11						
			- 11	Kannack, Especiatic (Co. Limerick), Kanturk, Listowel, Croom,				
				Tipperary, Mitobelstown No. 1, Limenck No. 1, Boyle No. 2, Manorhamiton, Liatowe				
July								
				Bandon, Charleville, Milistrees.				
September				Topocary, Mallow, Nowcastie (Co. Limerck), Kauturk, Boyle No. 5, Manuchamilton.				
				Trales, Elibeary, Croom, Mitchelstown, Manorhamilton, Omagh, Mitchelstown No. 2.				
				Sligo, Listowei, Ornegh, Memorhamilton, Cavan, Newcarlis (Co. Limerick).				
				Newcartle (Co. Limerick), Kantuck, Massaon, Callan No. 1, Manutamilton.				

The foregoing table goes to show that no period of the year has been entirely free from such conference. Their frequency, however, has been desidefully less during the four opening menshs of the year, when creament openings are contribute on accounts of the restructed output of mills.

complet with the high figures for the two exceeding surface, is a factor of considerable applicance, seeing that it enteriodes with the spring contrastes of the supply of milk and extends over the full contenting season of the overaction. The internets in Ideal is expectedly nontractional content of the contrastes of the contention, as called by the ny mixed metalores of steads tower, and the first of such increase points to the operation of some exceptional information. The automaty nationally providence of entire fewer, in reducing the record by the Springer and Dealer of the reducing the record by the Springer and Contra-

is reflected in the record for Reptember and Ordove, while the high figures for November and December may, with reasonable prehability, be attributed to the holling over of milk and the slosenge in possibly contaminated associatings consequent upon a failing apply in the early winter.

In may be added that no profession of either scenetisms or dighthers have been found to be amounted

with significant mild from creenings, slibbuigh held with significant mild from creenings, slibbuigh held three diseases are known to be disseminated through the medium of whole mild. The procusationery and preventive measures which the Losed forermant Board have from 1000 to time recommended to dasling with local systemics of coteris force countered with creamories better beam 1-

perconnectable in dualing with local epitomics of enterts force connected with pressured better here in-(1). The adoption of the Infectious Disease (Notification) Act, 1999, and the Infectious Disease (Prevention) Act, 1999.

(i) The enforcement of the Dubries, Cornbrds, and Millichops Dubres and the appointment of Inspectors theorement, (ii) The prevention of the supply of milk to researcies from infected households.
(i) The issue of votices warning the inhabitants of the effected erra against the use of separatel milk.

to the account of the creamery in-(5). The temporary closure of the creamery involved (in cases where the epidemic is extensive and protracted). (6). The introduction and effective use of pentegrising plant at creamers.

The last-mentioned subject was specially investigated by the Board's harder-loogist, Professor S. J. McWesny, and his report was circulated as May. 1900, to all another, subscribes to Belloot. The principle recommendations were that all ove milk recoved at communication by partnersed, and that the tempera-

ture observed in the process abould he 196 degrees. Fahrweiselt. Satter,

Although perhaps nob trinsity reluvant to the present in page, and in the part of the case of a face of the case of the

expons object of elucidating the problem, whether butter could serve as a medium of infection, but this wen not fallowed up. No case has come to the knowledge of the Local No uses an come or an array and array array and array array and array array and array and array and array array and array array and array array and array array array and array arra have been essectated with extensive outbreaks arising from the consumption of separated milk. These from the consemption of aspected mile. There consents ever, no doubt, at the must lime, they have been been found that the consent the consent of the consent that the consent t

for supposing that the constitution of evidence basis in was accountable to a group of netter free mass in the North of Ireland. On inquire, brower, it was constituted that the pulsaria in the createry area, constituted that the pulsaria in the createry area, constituted that the pulsaria in the createry area, constitution and the constitution of the constitution of the transport of the constitution of the constitution of the transport of the constitution of the createry had been discon-tistic resistance of the local createry had been discon-tistic resistance. The foregoing summary of the experience of the past meeting years above that the country system is

cepuble of acting, and continues to not, as a source of danger to the public health which cannot be disce-garded, That denger primarily has its origin of the premium of individual eronauty supplies through concentrant of discuss or non-observance of casantial principles of

elexifices and hydra-Secondarity, the danger arises at the greamery permisse through the failure to provide or make effec-tive use of a post-curining plant for the destruction of

pathogrado germs in milk received for butley-making. The remedies and proventive measures which should be generally adopted are — (1). Careful and systematic inspection of the pre-

muse of creamery suppliess in accordance with the terms of the Deiries, Cowshels and Mileshops (freland; Order of 1908.

(2). Exclusion from the creamery supply of all silk from infected homobolds, colour and until proper percentises are charried. The compulsory provision and one of posterois

ing plant of all presuper (4). Power to close a creamery whom found to be associated with an spiderale outhrook of discuss.

Local Government Board, Dublin. Dreember, 1912.

Supplemental statement handed in by Mr. J. L. Smith.

MILK SUPPLY AND INFECTIOUS DISEASE. Appended in a list of recent outbrooks of exterio

Approace in a new or recent concerns of control forer which have with more or less cartainty bean attributed to an infected milk amply. The following points may be noted :-

Progressy-The rate of occurrence is should three per somers. Incidence,-Greator in urban districts.

Countries.-Unreported or unrecognized cases en daley precises ... Typhoid corriers Polloted water supply

Obseure. This summery indicates the great importance of notification in the prevention of militherne epidemies

of enterie fever. Notification is esjoined under the Infectious Disease Notification Act, but that is an adoptive Act, and does not apply university to every sametary district The obligation to notify infections discuss is specifi-cally imposed on purveyous of milk by Article 14 of the Dairies, Cowaheds and Milkshops Godes.

A similar duty is prescribed by Section 54 of the Public Health Act Assertiment Act, 1907, but with wider scope, as it extends to every delevent supplying milk within the district of the sentiary authority requires the notice to be given in the Medical Officer

10

of Health of the district in which milk is supplied from the dairy. The Art, however, is an adoptive one. The main obstacle to the enforcement of the aboveentioned provisions ifee in the elegametence that knowledge of the existence of infectious disease on the part of the daryman, &c., is necessary to impose lability. There must therefore he wilful concentrate in order to involve a penalty, and guilty knowledge in not easily proved in evidence.

Tribodi carriers present a problem of considerable difficulty. Under the existing law they are not sub-ject to any data tillity, although they not about consti-titie a sectious source of damper to public health, especivily when engaged in the milk trade or the handling or preparation of food.

or preparation of food.

The trusher of outlevels in which the primary form of indecline counts to satisfacturity traced moves of indecline counts and the contract of the Liebenius Dieses Prevention Act. That Such the geographese, as a condition of the prohibition of the indecline Dieses Prevention Act. That Such the geographese, as a condition of the prohibition of infection obtained one an independent of the prohibition of infection obtained on the condition of the prohibition of t instruces, be positively determined. In might be a solution of this difficulty if in any amending legislation power were given to a multary authority to suspend the milk rapply from a daily

upon reasonable obcumutantial evidence of infection Occasionally outbresis of sountains and diphtheris, tracouble to the milk supply, easie unfer notice; they would average not more than two in the year.

RECENT MILK-BORNE BYIDEMICS OF ENTERIC FRYER

Yesc.	District.	Date.		Approxi- mate number of Cases.	Observations.		
1906,	Ciconel Urban Benbridge Bural Belbest Co Borough Libtom Rural	Jacobsy-May August-Saytember August-Oolober	:	27 13 90	Origin obscure, but pushakly indested milk. Unreported case in risks-reador's family. 18-defeard tilsses in risker. Widal test positive.		
1905.	Dabbin Co. Borough Swinford Bural	September-December October	::	100	Clouterf epidemic. Killiangh Convent School; Carrier in		
	Englesorthy Urban	Nevember-December		17	fairy premises. Fever of a mild type, not clearly defined.		
2000.	Londonderry Co. Borough Castlebar Rural Castlebar Urban	December Masch	::	29 15	probably enterio. Origin of miscellon observe. Attendants of Ennatio Asylum uttacked. Unresported case in family of Asylum milk contractor.		
1990.	Curtow Urban Permoy Repai Traite Urban Bullyshwanon Bural	April-May March-September November July-August	::	10 27 15 16	Typhosi Carrier. Case of tiltees in soils vendor's family. Resident; signs of outbreak charges with respected.		
1021.	Melkow Urban	November Donmber-March January	:	99 39 18	Unrecognised cases in dairyman's family, Densitioney, travel to Typheid carrier, Contagnated water used for working mili- vessity.		
	Caven Urben Deblin Co. Borough Arklow Urben	January-March July	::	9 80 23	Two darries involved. Origin obscure. Unrecognized cases in milk-vender's house		
	Galway Urban	October	::	12 18	Unrecognised case in milk-ventor's family Patients appelled from one daley, but cases		
	Duhlin Ca. Borough	October-Jacranny			of infection doubtful. Nourse of infection doubtful.		

APPENDIX D.

EXTRACTS from "Birrory on an Invitorioarms so to the Contamination of Mina." Carried out on behalf of the Councils of the County Boroughs of Bradford, Hull, Leeds, Rotherburn and Sheffeld, and the Administrative Counties of the Bast and West Ridings of Tertohure. (Pages 3, 4, and 28.)

1. The investigation clearly shows that serious contamination does take place, and to a great extent of a percentile character.

ordinary methods contents hacteria. Such insteris are given at a later singe of the milking process. given at a later stage of the maining process.

3. A very great inspects in the number of harderin
in milk takes place whilst the milk is being drawn. the utder, and the milk continues to receive

solutions at every stage of its journey to the concontemination, however, at the different stages 4. In general the greatest amount of contemination

occurs at the con-shed, and is largely stitilingable to-(t) The dirty condition of the cown' udders.

(b) The imperiors descaing of the cens or other receptacies in which the milk is placed.

The contemination in the latter uses (b) is especially gentourned in the warmer menths of the year. 6. The contemination occurring at the convinct can be almost entirely pervented by the adoption of the (a) Washing of the udder and flanks of the cow-

(c) Westing of fee unoer and sense ut the world stop and pres water-preferably water that has been belief-before milling. Obviously the million must give similar attention to his hands, (d) Edition stortlistical of all venues by steam if

(b) Different stortlisation of all vessets by meats as possible, or, failing that, by an shundance of belling water. The vessets before being stortlined should, of course, as is generally recognized, be first well washed out with clean cold water. In this respect that the first of the irrner would be greatly facilities of the irrner would be greatly facilities. weahed out with clean cold ratios. In this respect the task of the farmer would be greatly facilitated if the case were efficiently cleaned by the retailer before he returned them to the farmer.

(This Report was kunded in by Dr. Harold Sourfield, Medical Officer of Health for Sheffield, Gr. 30018.) (c) Resection of the first draw of milk from each

> (d) Avoidance of any work raising dust immedistriby before or during milicing. (r) Removal of the milk of each cow, immediately

> after it has been obtained, to the large can not amidfor the reception of the whole of the milk of the cours. Core should be taken that one one would notice the strainer, or protected from deet

or any outer cause of commentum. This appeal, of course, can be better attaked if the receiving-can is not allowed to stand in the covuled at all, but in a clean store convesiontly near,

6. Ventilation of the cowshot, eithough of great importance as regards the general health of the cover, has appearable, from the results of the present inves-tigation, no very direct hearing upon the degree of contamination suffered by the suffix in the escubed. A well-lighted coverhed is most desirable in the interest

7. The extent to which incourie, present in the milks at it leaves the cowsked, multiply before the milk is consumed, it mainly a question of the temperature at which the milk is lept and the time that also absolute the milk is lept and the time that also absolute the milk is lept and the time that also absolute the milk is lept and the time that also absolute the milk is lept and the time that also as the milk is lept and the time that also as a lept and the milk is lept and the time that also are the milk is lept and the time that also are the milk is lept and the time that also are the milk is lept and the time that also are the milk is lept and the time that also are the milk is lept and the time that also are the milk is level to a second the milk is level.

the interval of time the law to the hacturia coultiply. 8. The valuable effects of coding carnet be fully stimined unless the cooler itself during storage and use

is effectively protected from contemination. Contamination during railway trensit is practically avoidable, if the milk cars are locked and provided with dast-proof lide-of such a type as will protect the with mater-proof limit such a type as will protect the lip of the can from dust or other contamination, and reader it impossible for any milk shaken out of the can to drain book late it.

10. The dust-index atmosphere of the railway station anders it undestrable that the talk should be poured from one can into another on the platform or other onen parts of the stateon. 11. Additional contamination prices from-

(a) Exposure to dust-for example, in retail shop, during street delivery, or in communer's house. (b) Imperfectly absensed milk recupender, such as retailers' cars or consumers'

CHIEF SOURCES OF CONTAMINATION.

A .- AT THE CONTRACT

Improporty cleaned milk vamels and the dirty udders of the cors are the source of by for the greatest amount of contamination by organisms and especially by glacous-deminates and strepteceed. The dirty mile reased contribute much more than the dirty pidees in

summer, but in winter the opposite is the cost.
Millions with dirty bands and dirty clothe clothes, and especially wet malers, contribute their shere of pollu-The air and dust in the cowshed add to the con-tamination, and coders, at often used, contribute a

B.-AT THE BAILWAY SEVENCE.

Contamination while the owns are in the hands of the railway authorities occurs mainly as a result of

placing them in durity vans, storing them in improper or durity parts of the states, and of superper er rough handling, causing the sulfit to splash over the bill. The rativesy poeters, and others, who sit upon the charms are responsible for a certain structure of concurran are responsible for a certain amount of con-tentianties also. The risk is increased in all cases when the case are provided with lide which one bedly fitting or of finite construction.

C-Os was Barresan's Parserons on Smany.

Badly okened care are a source of contembustion here also, although not so great as at the coreshed, owing to the rotation paying greater attention to the

chaning process.

Polistics will take place in retailers' premises owing to the milit receptodrs being unsovered, especially where the hosping-place is dough or the clother of the retailer dirty. Organisms may be saided by continuent in handling, (4), by the use of a disput which has born kept on a deaty country.

D.-AT THE CONSTRUCT'S HOPER. where they are usually more abundant.

Pollution takes piace here as a result of locoling the milk in a dusty piace and leaving it uncovered. Only a small amount of continuousless occurs from the receptuals of the consumer.

Files are a source of contamination at all stages of transft, but especially at the consumer's boose,

APPENDIX R.

Reservation of Cow-plot by the Betates Commissioners for graving historyers' cown.

Scerner under Sections 4 and 20 of the Irish Land Act, 1903.

(Harded in by Mr. J. T. Drenner, B.L., Qv. 12997.)

ESTATE OF J. P. SEARNEY.

COUNTY OF MINORS. Second No. L. J. SI, Section VII.

2. In these presents :--

1. in these parameter— (i) The "Tract lister i shall mean all that and (i) The "Tract lister i shall mean all that and interest areas, the rade and thiny persists status construct controllers, strains in this ratio of Fine annual Conference, and computed in a second interest of the property, and computed in a second horizont size hardened and "are all size-less," in soil Yessig Goden mentioned, The conference of the conference of the conference provided Homo, Goldenthe, Tapick Strain, 187, etc. (Glesche, Ph.1.0., et Million), Globarth, or the sur-tice of the conference of the

helpe of those presents

(6) To permit agricultural inhomers residing in the neighbourhood of the Trust State or such other per-sons as to the Trustees may seem the as the Trustees tray select in manner hereismiter provided to depas-ture entite upon the Trust Estate at such times and places and subject to such conditions as to payment or otherwise as the Trusteet may from time to time direct or poeserabe.

(b) To plant the Trust Estate or such part or parts thereof as may, in the opinion of the Trustees, he suitable for that purpose with timber or other trees. subtace for this pieces with some to come the analysis person the timber or trees so planted (or any woods or plantations that may now be gooring on the Trust Relate or any part or parts thread), blinning set the same in a proper manner when occessary, and if any mask from trooks or plantations) should at any time house, and fill dray we become sine for retirious hards and the common time to the contract of the little incremation fall, decay or become ripe for cutting to cut down and remove the same or any of them,

and to sell the timber or frees to cut or reasoned to and to sell the immor or trees to cut or removed for the benefit of the Trust Estate, and to neglect the place from which such trees shall have been removed. or any part thereat, or to plant may other part or parts of the Frunt Estate at their own sole discretion.

(t) To preserve all game and fish even the Trust Estate or any part thereof, and to take such proceedings as may from time to time be necessary for the peacecouldn't be persons wrongstelly their or injuring the same, and to let the rights of shooting or finite and or over the Trust Exetate to such persons and for such periods and on such terms as to payment or otherwise as may to the Trustica from time to time

(d) For all yneposes commented with or subsidiary to the building of Inheurem's cottagra, or of the laying out of Elizament under the provisions of the Labourees (Indiana) Acts, as amended by the Irish Lenk Acts, 1808, or by Govy subsequent) Acts or Acts.

3. The Trusteen shall each year, or at such time as shall seem to them expedient, declare by advertisement or otherwise what portions of the Trust Estate over available for guarance for that year, and shall in the meanre invite applications for such pesturage focus the agricultural lobecurra residing in the neigh-boratheed of the Trust Estate, and from among the applications no received by them, or should there not be approximate no precented og sastes, or estente tantos une on a sufficient number of australia applications, then form such other persons also as to the Truston unity seam fit, shall determine the persons who shall have the right of pasturage on the suid portions of the Treat

 Without prejudice to any other porces and authorities wested in the Trustees under these presents, the Trustees shall here the special powers following:— (4) Power to define and fix the pertions of the Trust Eviate which may from time to time be used for each of the several purposes hereby contemplated.

(b) Paner to employ and remember to any solvente (v) some to empty, non remembers only sometime, bend again, engineer, surveyor (gunneleeper), balliff, or emetales, or any other agent or services they may think fit from time to time to employ as outmention with the escention of the trusts of these presents. with the exception of the trusts of these presents, (g) Fewer to this exceeding to a uniform scale the sormal or other contribution to be under by each of payment of the annuity appoints in wapper of the payment of the annuity appoints in wapper of the networks must by the Firsh Lord Contribution to enable the Trusteen to proteince the Trust Eachet, which were the chara of the Trust Eachet, and the conveyance of the time to the Trust Eachet, and the conveyance of the time to the Trust Eachet, and the conveyance of the portion and energino of those presents and the carrying out of the Trusts thereof, including the renumeration of any agost or servent employed by the Trustons in connection thereasily, and the payment of all rates, taxes, macesenrate, impositions and out-goings changed upon the Trust Estate or properly pay-

(d) Power to make, do and execute all mels deeds, and things on they may deem measurer or proper for giving effect to these presents.

5. (a) The power of appointing new Trustees of three passents shall be vested in the Lord Lieutenast, but no other primes shall so appoint a Trustee whose prime shall not have been previously surgoved of by the hish Lend Commission.

(b) The Lord Licotenset shall have nower to remove nt any time, by writing under his hand all or any of the Truston, and (subject to such approval se last sincreasis) to appoint a new Trustee or Trustees in place

6. The Trustees shall meet at such times and pieces as they may arrange, and shall enter in a book to be kept for that purpose a record of all precedings at their meetings, and a fell account of all manies received or pask by them in the quoution of the Trusts. of these presents.

7. All mouses received by the Trusteen that may not be required for the payment of the said amority pepalse in respect of the Trust Rathes, and for the payment of necessary exponen of the meangement thereof, shall be last out by the Trusteen to the ingrovement and development of such estate with a anyone mean, and acceptant of some citate with a view to the several purposes contemplated by these presents or otherwise applied by them as the Lord Lordennia may free time to time direct.

8. The Trusteen shall have full power to determine o. zee Trustees small have full power to determine all quantions and mostlers satisful as the execution of the trust of the trust of the processing and every such determinants whether, marks upon a question activities missed or implied to the sate and proceedings of the Trustees, shall (subject to the right of appeal next honcomotic provided for be questiative and busing or the persons emptying the right of parturage, and each of them and all other persons interested in the Treat Estate by virtue of these prescuts.

9. Any person enjoying the right of pasturage or other preson aggricus by any notice or omission of other person aggreesed by any serven or consisten of the Treatees in courying those presents into effect may present a memorial in writing signed by such person or other person to the Lord Lieubounts, stating:— (a) The bondity of the Trust Estate and the interest of the recognition theories.

(b) The names and postni addresses of the Trusteen for the time being of these presents. Set the turns being of these possets.

(v) The peems ention or continues by the Touckee,
(v) The peems ention or continues by the Calletter and
Lineatream rang, no Exemispation note the nutries also
contains to the precises as may expect to like just
order. It is the precises as may expect to like just
order, it the precises as may expect to like just
order, it is the precises as may expect to like just
order, and the precise and the case may require.
Trustees or a new Krustee, as the case may require.
Trustees or a new Lineatre, as the case may require,
you come to be the like like the like like you come to be under half the content of the like like you
come so make shall thenorize the likeling on the
Trustees, and on all other parks accessed to the

10. The power (other than the power of appointing new Trustees of these presents) and authorities and discretions beginning the present may be exercised by the majority of them for the time being-

11. If the Trust Estate, or say part or parts thereof, shall be to longer required for any of the purpose contemplated by these presents, she same may be said or otherwise desposed of for such public purposes as the Lord Liquitensate way appears, and the not proceeds (if any) of any such sale shall be applied as the Lord. Lieutenent shall direct.

Mr. No applichment industries or other person shall be the shall have signed as agreement in referring under their personal person of the shall have signed as agreement in referring under their personal person of the shall be shall be shall be shall be found an applications that may be from their to the form and regulations that may be from their to the form and regulations that may be from their to the control of the shall be shall be shall be shall be found to the shall be shall be found to the shall be shall device to refer to the shall be shall be to the right of upon I technically person when the re-turnment of the shall be to the right of upon I technically person the menting of the law of the shall be shall be shall be shall be shall be shall be to the right of upon I technically shall be menting of these pecareta.

18. Save as herein mentioned the persons enjoying the right of pasturage or any of them shall have no rights or interests over ar in respect of the Trust Battle, or the reads or pushes thereof, or the processing of the sale thereof, or for se in respect of any part of the some respectively.

Duted this tweety-first day of April, One thousand nine hundred and aleven, Signed by the said Robert Barry, Patrick Sheri-

day and Motthew Hard, in the presence of (the last elame. No. 14, having been first struck out). James Lousey, C.C., Oldessile, John F. Tellan, C.C., Oldeartle.

> ROSSET BARRY. PATROGE SERVICIAN, MATTERN HAVE. (Sec. of Irish Land Communication.)

APPENDIX F.

THE UNITED INSHWOMEN

DOMESTIC MILK SUPPLY.

During the past year a special inquiry has been usuale in several rural distracts in Ireland with regard to the demestic milk supply, which, without scorplish-has been experienced to be insufficient. From May to August formers have a pleatiful sup-ly of mile, and consequently it can be obtained in larger quantities by the ordinary milk wrodows the

shopkeepers in the small towns and villages who keep mangacopees as the ameni owner som vassifies WSS 2229, a couple of closes, have surplus milk to dispose of at this sensor, and the poor man but his good.
When August comes, however, the supply from all these sources dimensibles, and the greater projection of the people throughout the country-field are left withthe perjet innecessit to continuous and numerical out milk or with only such an insidepast supply as to precise the size of its being a necessary part of food altogether, unless for very young inisate. Con-densed milk is constantly substituted for fresh milk, and well authenticated cases have been zooled when stoot, and even black sea, have been given to the very

Printed image digitised by the University of Southampton Library Digitisation Unit

Some attempts have been usade to this state of things, discourage as it is to the health and well-being of the recole. and well-being or me people.

In five centres a domestic milk supply has been organised. This may seem a small result from the trace expended, but the difficulties to be surrecanted.

It is extremely burn to gale accurate information It is extremely bard to gain occurate information and to find people willing and side to take the respon-sibility of looking after the depots; also in many districts it is shared impossible to severe a constant The greatest difficulty of all is to reduce the expays. The greatest atmostly of all is so induce the people to work ingeliars for the common gled, inther than for indevidual interests. Opposition too line than for individual interests. Opposition to me offers to be econutriced, chiefly from the small shop-lesspen who sell unit, and though unable to supply their estimates adoptately all the year resund, are emission to region them as a sace means of disporting mofishing of the surplus when they keep it. steady milk supply were consisted, the shookeesery steady milk supply were organization is considerable amount of custom from people who, coming to buy walk, become tratemore for other commodition as well. In general the shopkeepers are strongly opposed to combination or en-operation among the people where the passing of money is consumed. The breefit of the domestic milk supply, as organised

I. It sime at securing for the people an adequate malk of the year ruces, at a low rate-2d. or 24d. a queri.

2. It directs the attraction of the people to the necessity and value of sweet will as food. - 3. It trids to raise the standard of the conditions under which reffe to cold. The system of each payment, and its depondency on the intelligent legalty and support of the people themselves, being to instil a spirit of self-

reliance. The work, being at present in its initial stage, shows The vary, being shyrestern in its instant sugar, more many insperiestions, the most nections bring in similar-quate conception of the absolute need of logality to the co-operation ideal. The people are only tempted seaso, from the mild depot strang the plentited sensor, which causes the sale of mild to fall so less us to which causes the sale of mild to fall so less us to endanger the depot's existence on a self-supporting

As will be seen below, in the Borns Depot this summer superficity of milk is being made too botter, and well attended classes are held in connection with it. It may also be noted that the Kilmallock Denot has taken on the sale of Kilmailnek Creamery charge Both these departures point to fature developments in

the weer. We trust that time will demonstrate the great ad-wastage of a reliable all the year reand supply of pure unit; in which case steady support of the milk depote would become assured. The task of bringing unit as an article of food within reach of all classes of the people is one of the most important that any he undertaken for the physical well-being of the race. The United Brishwomen, who have undertaken to make this attompt, here to show a live unnertages to some the sittinger, sope to more a for greater receit in time post car, not show in the opening of new centers of mppty, but in the more satisfactory serving of a system still in its infuncy which with increase of knowledge and follor realiza-

tion of the practical benefits it insures will storb corns They appeal for the support of inteleveners and the larger farmers in these sufficies districts. As will be seen by the few satisfacts beavering appealed, such support is streetly generoody fortbooring and they do not drive many others would come feward did they but realize it is owing to the searchty of milk that the physique and mecale of the people shows such deterior-

The following statistics will give some idea of work

Borris, Co. Carless.—The srifts depot was opened on October 8th, 1912, by Mr. Welter Havanigh

building a cottage and presenting it to the Beanch at the accessed rent of 1/- per marram. The neces-sary capital was raised by a Jumble Sale and otto-tage and the period of the latest period of the Initial sary capital was reason by a termine Same awa camos contartainments, and ASI was collected. The initial outlay on plant and functions amounted to 48 Ma, and between October 6th and May 51st 2,000 gallous of milk were sold, the milk being bought at Md, and retailed at 6d, per galley,

Is was impossible to meet the denied during Pelevary and Much, but later on the keeping of grate by cottagers and of cowe by smell shopkeypers goods by cottagers and or over my subside scoparopers to his upon the sakes. The agreement with the transe-being far a regular supply off the year round, leaves some on band each day during the summer membe. To meet this difficulty the depot precured the lean of well attended by the wives and daughters of termers The depot is now ordered a chura for itself paying its way, and has in hand a behave of \$12 mg.

(Signed), M. DOYLE, Hou, Sec.

Kibuallock, Co., Listrick.—The milit depot was operaed on Jagons 17th, 1912. In whiter is to 20 galitzes of rift see asld delly, but during the commer markle 7 galities rapply the densead. Our co-text with the former is for a sometone of 10 galicus. tenet with the narmer is not a humanism as a supplied and the surpline we return to the creamony at a slight the the surprise we seemed to the street own to 1760 per week—so the summer sales harely over this cottay. The milk is hought from the immer at 66, a gellon and retained at 86. We have recently taken up the milk of these made at the coopenitive taken up the milk of these made at the coopenitive cremery, Establish, and up to the pearst have

(Signed), K. GAFFNEY, Hop., Sec.,

(Signed), E. McADAM, Hav. Sec.

Owegh, Co. Tyrons.—This depot was started at Ganage as being a central point for the surrounding country districts, and during the winter months there was a large drivens—scenes welling as for on there was a range demand—received sensing at our or three ratios daily to some rails. In the set mounts from December to May 5,488 gallons were sold. There has been considerable falling off in the sales lately, onling to milk being more plentiful.

Brug, Co. Limerick.—The milk depot which was opened at Sauff in February, 1913, continues to fit a much needed want. In winter much it was openes a much needed want. In winter mounts a shoot impossible to secure wift of my kind, as a shoot impossible to secure wift of my kind, as so few finners go in few winter shirtying. In summer it does not do so well. Fueple who have in summer all know grounds. The depot, interior it uses not do so well. People interior nottages nearly all keep great-nized through the kindness of our Pres Mrs. Barrage and other members of the Committee, we were able to start fully equipped, free of debt, we were asks to skut fully equipped, free of debt, is a skeley got pills be jace, most ettersiler with its clean will viscosile, statues, all of what the stematic term is pool order. When well established I am save it will be a florrishing orderen. The billies of Committee taken in the wate of the statue of t

(Signed), A. P. HUNT, How Ser.

Ballinakapital, Co. Kerry.—As this is a purely rural district, is was decoiled that if the people were to have milk, a rest must take it ficer house to A farmer was found who undertook to supstore. A ferrier was found also undertook to sup-ply the milk as de, per gellon, which is sold at 8d., the 24. per gellon being from sufficient to cover coat of existant. The amount of milk sold sense July, 1912, when the distribution was sizeful, in 3,009 gellons.

(Nigned), M. WALLACE, Hos. Sec.

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Local bades suppost impropriate approximate making the efficient performance of duty impossible, 1983.
Locally expected others also are not independent, 1983.
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DRENNAN, JOHN T., B.L. (Registrar and Assistant Serretary to the Estates Commissioners, Ire-

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Only in the case of embended lend out over-plots be reserved, 2008.1.
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DRIED MILE.

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GALBRAITH J. (Dairy Farmer and Milk Vendor,

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OALLAGHER, DENIS (Massager of the Lough Engish

Co-operative Century, Co. Moustian,
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GALLAGHER, MICHARL (Farmer, Collowery, Co. Sigo, and Member of the Committee of the Collowery Cooperative Century). Julk raised in Collowery in almost all sout to the excensively self-vision of the Collowery, 2607-262. No cornelly of milk in the databols, 2666-260.

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Formers think whiter dairying does not pay, 27047.

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Industrian Elease I raced to the salls supply, 800-1
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GOSSELIN, MAJOR SIR MICHOLAS (Member of the County Monaghan Agricultural Committee). Undertook dairying at Burtosport, Co. Donngal,

23711.6 The people sell their best producer, \$8797.
The Abridees Augus is not ordinarily a good militing
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ows, 2000-1.

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The sweige milk yield per cow in Co. Donagal is about 160-170 gallow. 2001-18; attributable to the poor feeding, 2015.

Totales the Kerry bell is most switche for Co.

Teltaka the Kerry bell is most suitable for Co. Descepti, 28825-54 Does not agree that persistent um of the Galloway bull has dischashed the male supply, 28835.7. Keeping milk records in martal, 28850.01.

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E, DB. HUGH (Medical Officer of Health, Stowartstown, Co. Tyrozel,

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After nating as importer of covaheds for the Cooks-town Burst District for two years, was superseded by a veterinary inspector at half the salary.

HARBIS, DB. HUGH-continued ARRIS, DR. HUGH-confusing, Goats of an improved breed would be useful, 29757-62, 2008-10. The Order has not get anyone cut of business, Senervision by a central authority is necessary to renture maiform administration of the Order. 900758.p

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HOWATT, JOHN, M.B.C.V.S. (Voterinary Inspector, Derry).

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Ceokery leaces are gives in the local National Behauls, 28610-23, 28677-87 The branch sensors necessition oblidees by giving INFECTIOUS DISEASE (PREVENTION) 1890. See "Discore, Percention Act." Goets are impt by inbourers, SSGIT-R.
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UNDER THE DATRIES ORDER OF 1908. The giving of power to inspect cuteids daintes under Section 19 of the Tabercelosis Provention Act, 1908, selvoented for

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The Errel Council was not numbers in enforce the Dairles Geder, 2007. Creamerica might be the means of relieving the conotty, 20792-800. Recommends that furners be subsidized to provide pour people with milk, 29757.

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conficued. Evolund.

The existing method of proteoting the milk supply is a classing memon of protecting the man copper is a classing makeshill; each city has to protect itself. 22526; the results are imperiod, 22506.71; and the system is expensive, \$2000-8.

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MILK VENDORS.

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MOERISON, DR. H. S .- continued. The cream is postoursed, 28022-25,

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MUSSEN, DE. A. A. (Antistant Medical Officer of Health, Liverpool). Inspectors who look after the city's milk surnly. 51339-66 Procedure for detection independ milk, 32550-5.

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There is no sale of "cortified " milk, \$1302-7. Municipal Industr' Milk Danets, Liveraged. Genesis, 31433-5.

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NIVEN, DR. JAMES (Medical Officer of Health, Monebostes).

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A privote enterprise was started on the lines of the Copeningco Milk Supply (Breek's), but did not scored, 31271-6.

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Velocicalist in which life is largely doe to animal infection, 1922.

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Discussions as to intentional of resisting cores and
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and hospitals, 31878-34. Policials, children,
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O'BOYLE, JAMES, J.P. (Partner, Kiffala district,

BOTLE, JAMES, J.A. (Fatuer, Jonas, C. Mayo), Co. Mayo), So. connected in North Mayo, 21(3). There is nearly of mile, 978-78, 279-13, 279-13, Obots see not used for militing proposes, 278-14. The Angus brook profoundates: there are nearly laborates 978-98-2, 2718-1. Wants a pure-level shorthorn built of milling strain to be sent to the district, 27072-4, 27088, 27056.

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They deteriorate at 27348-5, 27408-14. deteriorate in value after the first evens. Suggests that no built be used except those approved he the Department, 27500.74. Trade in old come, 27008-018.

o Veterinary Importor has been necessated for Editals rural district, 2003-8.

O'BYRNE, PATRICK (Resident in Killylogs, Co. Decayed. Milk is score from December to April all over the

Meta scarce in villages than in the country, 38062-31. As a result of the Dairies Order, a number of milk rofters because immediately malors, 18005-5; but this righted stand subsequently, 18007-8. There is not someh wister calving, 20000; and no catch coupping, 28030-1. The old Irish cow; good as a million, 28016-6

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O'SYRNE, PATRICE-continued,

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FRENTICE, DAVID, M.B.C.V.S. (Superinstandent Tapistic Imposture in the Vetericary Breach Tapistic Imposture in the Vetericary Breach The Department Veterlayer (Inspection county vet-eroscine control over the health specialist Vetericary Daposture, 1991/7, 25 Department of veter discussion points of counts, 25048. But one Benni-the Daposturott-mouse be reposited for discusses in stimula, 25048.

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(1) By look authorities unote an action (3000).
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Local bodies appears impactors of nomines manner, making the effects performance of dety impossible, 639GL4. Locally appointed officers who are not indepen-dent, 339GLA. Gential control accessory to sesure tendorm adminisration, 82988-93.

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PRESERVATIVES. Use of, in Ireland, haven't

Use of, in Ireland, Speat, Forbidden in England, S2668-4.
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QUINTON, JOHN T. (Food and Drugs Inspector,

City milk is bester than country milk, 61611-4.

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Difference between morning and evening mile, Cowkeepen see prosecuted for not notifying cown with diseased addres, 31003. The piec of ignorance is not accepted, 31003.11. Pines

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No opposition is now made by formers to respection. Does not deal with the Veterinary Surgeon's work

as all, 81707-8. Befrigerting cars or platforms for milk traffic are not provided by railways, 51716-22.

Dirty milk; there has been no prescution for, 81726.9.

BAILWAYS. Refrigurating over or platforms for milk traffic are near provided by \$1714.09

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81620-32. Milk sterilised by perceide of hydrogen: sileged as a soune of sourry rickets, 30008. Not caused by the use of sterillard milk, 81751,

In a bottle-fod buby's cilment, 32617. ROBERTSON, DR. JOHN, M.D., B.Sc. (Medical Officer of Health, Recolumnan).

There is less tuberoulents in Bermingham than in other large composable towns, \$2135.6. There is a staff of boly health visitors who instruct poor mothers as to the care of their bables, \$2135.4.

Attributes the high rate of infant mortality to improper feeding and treatment of babies; the milk supply is not the cause, \$2145-51.

It is better to have a pleatiful supply of milk produced under cedinary conditions than supply of more expensive milk, 32237. then a smaller

The small shops which sell milk serve a usoful pur-yose, has require special supervision, 32350-5. There is no municipal milk depot in Birmingham 82150. Sterifised food is not good for children continuously, 22158; but to avoid danger to young children, milk should be sterifised, 82155-8.

ROBERTSON, DR. JOHN-custimed.

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public bealth authority of the town receiving public bealth authority of the town receiving the mile, 32101-70.

Dange, of typhold from use of impure water for washing cans or eattle standing in foul water,

83173.0 Would like to hime posier to furbid unite to come into the city from dirty sheds, or where the unter supply is load, \$2350-4.

The existing (slow) method of detecting tuberculous male is reliable and therefore preferable to others,

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Certified tohercle-free milk is deaver than ordinary milk, 89332-4. nille, 2020-1.

Nothing we can do is too expensive to step tuber-culosis, 2020-1.

The proper way to get non-tube colous milk is to free cuttle of tuberculosis, 20225-7. Tree exitie of titoeresisms, second.

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O. Silvo-Silgo, 26005 Id. 27203 J. C. Biscopii-Ginnina R.D., 27261-5, 27298-755, 27208-77, 27261-76, 27258; Kilybon, 27208-750, 28004, 29161-6; Februaryal Uricon, 28220, Mere Searce in Wilages time in the country, 19022-81.

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"Butta".

"Butta".

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SCURFIELD, DS. HAROLD, M.D. (Medled Officer at Haulth, Sheffeld).

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Lang-tide labies' betties not approved of, \$2611.5.
Death-sate from tuberculous in Sheffield; offeet of

Detailed the laborations in Shrifeld; offert of preceditions or milk supply on \$2020-0.

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world be inconsistent to have whole-time seriornary impressor under the Deiries Order at the
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The Barral Cosmoli have only recently appointed a verteriner inspection, 19231.3.

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Bottle selves are \$200.05.
Bottle selves are before \$200.05.
Bottle selves \$

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